

✓ = entered dist. maps
— = typed label
O = entered data base

Property of Steve L. Timme

7795 - 10049

~~August, 1988 - December 27, 1990~~

Class of ~~9254~~

May 17, 1988 - December 27, 1990

Vol. III



56-907
Made in USA

May 17, 1988. Peru. Dept. Loreto, Prov. Maynas, DHO. Las Amazonas
Explorama Camp. Along trail. ca 90 m above
sea level

M4

7795.

On tree covered with a powdery fungi.

7796. Plagiochila

On tree covered with a powdery fungi.

7797.

On palm fronds.

7798.

On palm fronds.

7799.

On tree trunk.

7800.

On tree trunk

7801.

Forming an extensive mat on tree trunk. - Shaded.

m3

7802.

On log. Shaded.

m3

7803.

Octoblepharum

On log. Shaded.

7804.

On tree trunk.

7805.

On tree trunk.

7806.

On tree trunk.

7807.

On tree trunk.

7808.

On tree trunk covered with powdery fungi.

7809.

On tree trunk covered with powdery fungi.

7810. Plagiochila

On tree trunk.

7811.

on log. Shaded.

7812.

on log. Shaded.

7813.

On log. Shaded.

7814.

On log. Shaded

7815.

On log. Shaded.

7816.

On leaves.

7817.

On leaves.

7818.

On log.

7819.

On log.

7820. Octoblephrum

On exposed root. Abundant.

7821. Fissidens

On trunk of Melastomea

7822.

On trunk of Melastoma.

7822a. Calymperaceae

On trunk of Melastoma.

7823. Plagiochila

On tree trunk.

7824.

On tree trunk.

7825

On log.

7826.

On log.

7827.

On orchid leaves and roots of Peperomia.

7828.

On leaves and roots of orchid on pepperonia.

7829.

On stems and roots of a pepperonia — on bark of tree

7830.

On stems and roots of pepperonia — on bark of tree

7831. Plagiochila

On old bark remains hanging from tree over stream.

7832.

On old bark remains hanging from tree over stream.

May 18, 1988. Peru. Dept. Loreto, Prov. Maynas, Dtto. Las Amazonas.
Along trail at Explorama camp.

7833.

On plant buttress.

7834.

On soil of trail; partial shade. w/ sporophytes.

7835.

On soil at trail entrance.

7836.

On soil at trail entrance.

7837.

On tree trunk.

7838. Plagiochila

On plank buttress.

7839.

On liana mixed with fungi.

7840.

On fern frond (tree fern)

7841.

~~On tree fern frond~~ On member of the Bombaceae.

7842.

~~On tree fern frond~~ On member of the Bombaceae.

7843.

On leaves and petioles of Sacha Hullaea.

7844.

On leaves and petioles of Sacha Hullaea.

7845.

On leaves of pepperonia.

7846.

On leaves.

7847.

On leaves.

7848.

On leaves.

7849.

On leaves.

7850.

On fern frond.

7851.

On fern frond.

7852.

On leaves.

7853.

on vine leaves wrapped around tree.

7854.

On leaves of vine wrapped around tree.

7855.

On leaves of vine wrapped around tree.

7856.

On leaves of vine wrapped around tree.

7857.

On leaves.

7858.

On leaves.

May 18, 1988. Peru. Dept. Loreto, Prov. Maynas, Dtho. Las Amazonas.
Explorama Lodge Area.

7859.

On disturbed soil and rotting wood. Partial Shade.

7860.

Same as 7859.

7861.

Same as 7859.

7862.

On soil over decayed log.

7863.

On tree trunk at edge of seasonal stream.

7864.

Same as 7863.

7865.

On liana.

7866.

On liana.

May 19, 1988. Peru. Dept. Loreto, Prov. Maynas, Dto. Indiana.
On Bushmaster trail at Explorama Lodge.

7867. Plagiochila

On liana.

7868.

On log. Shaded.

7869.

On log. Shaded.

7870.

On cut sapling.

7871.

On tree trunk.

7872.

On tree trunk.

7873.

On tree trunk.

7874.

On tree stump.

7875.

On rotting stump.

7876. Plagiochila

On rotting stump.

7877.

On branch of felled tree ~ 30 m from ground.

7878.

On log.

7879.

On log.

7880.

On branches of Melastome.

7881.

On log.

7882.

On log.

7883.

On log.

7884.

On log.

7885.

On log.

7886. Plagiochila

On base of tree.

7887

On base of epiphytic orchid.

7888.

On plank buttress.

7889.

On monocot leaf.

7890.

On leaves.

7891.

On leaves.

7892.

On leaves.

7893.

On plank buttress.

7894.

On "toothache tree" near seasonal stream.

7895.

On "toothache tree" near seasonal stream.

7896.

On palm leaf.

May 19, 1988. Peru. Dept. Loreto, Prov. Maynas, Dtto. Iquitos.
In disturbed area of Explorama Lodge.

7897.

On tree trunk. Partial shade.

7898.

On tree trunk. Partial shade.

7899.
On tree trunk.
7900.
On tree trunk.
7901.
On tree trunk.
7902.
On rotting tree stump.
7903.
On tree base at edge of temporary channel.
7904.
Same as 7903.
7905.
On leaves; trail from Amazon River to Explorama Lodge.
7906.
Same as 7905.

May 25, 1988. Peru. Dept. Loreto, Prov. Maynas, Dto Iquitos.
Sandy uplands at Zungarococha. Secondary
growth forest. Near Iquitos.

7907.

on palm sapling.

7908. Plagiochila

on palm sapling.

7909.

on log.

7910.

on log.

7911.

on tree trunk.

7912. On open disturbed soil of trail.

7913. on tree trunk.

7914. Plagiochila
on tree trunk.

7915. On branches.

7916. On rotting stump.

7917. Plagiochila
on stump.

~~7918.~~

May 26, 1988. Peru. Dept. Loreto, Prov. Maynas, Dpto. Alto Nanay.
On trail leading from ~~Komay~~^{Momon} River through
Sanandres to Padrecocha at Rio Nanay. Heavily
farmed area. Cleared areas and secondary
growth.

7918.

On fresh felled tree in dense vegetation, ca. 7 m
from substrate.

7919.

Same as 7918.

7920.

Same as 7918.

7921.

On tree at Padrecocha.

7922.

On sapling.

7923.

On sapling.

7924.

On sapling.

7925.

On tree with deeply furrowed bark.

7926.

Same as 7925.

7927.

On tree trunk.

7928.

On tree trunk.

7929.

On rotting log at edge of forest.

7930.

Same as 7929.

7931.

On tree base in clearing.

7932.

On tree trunk.

7933. On

On tree trunk.

~~7933~~

May 27, 1988. Peru. Dept. Loreto, Prov. Maynas, Otto. Tiquitos.
 On disturbed soil at 462 Huagua St (IBE.)

7934.

June 12, 1988. AL: Mobile Co., Along hiway 193 ~ 1 mile
north of bridge (causeway).

7935. Daubentonia punicea (Cav.) DC. Along 193 in wet
ditch.

7936.

Along 193 in wet ditch.

7937. Cladium jamaicense Gratz
In wet ditch.

7938.

In wet ditch.

June 12, 1988. AL: Mobile Co.; Savanna - Pine Flatwoods along hiway
188, 4-6 miles west of junction 193.

7939. Ludwigia
In Savanna.

7940.

In ditch.

7941.

In savanna.

7942.

Calapogon

In savanna.

7943.

Sabatia

In savanna.

7944.

Paspalum

In ditch.

7945.

Cyrtia racemiflora L.

At edge of flatwoods.

7946.

Paspalum

In ditch at edge of flatwoods.

7947.

Lobelia

In ditch.

7948.

7949.

Paspalum

In ditch at edge of flatwoods.

7950. Xyris
In savanna.
7951. Dichromena ~~latifolia~~ ^{latifolia} Baldw. ex Ell. Abundant.
Savanna.
7952. Polygala
In flatwoods.
7953. Polygala
In savanna.
7954. Rhexia lutea Walt. Scattered throughout savanna.
7955. Scutellaria
At margin of savanna.
7956. Xyris
7957.
In ditch.
7958. Quercus
Scattered in savanna.
7959. Rhexia

7960. Xyris
Scattered in savanna.
7961. Ctenium aromaticum (Walt.) Wood. Scattered in
Savanna.
7962.
Scattered in savanna.
7963. Hypericum
In savanna.
7964.
In ditch.
7965.
In ditch.
7966. Lachnanthes caroliniana (Lam.) Dandy
Scattered in savanna.
7967. Lophiola americana (Pursh) Wood.
Scattered in savanna.

June 12, 1988. MS.

Savanna on Pecan Road off hiway 90.

7968.

In savanna.

7969. Calopogon

In savanna

7970.

In ditch.

7971. Vaccinium

In savanna.

7972.

In ditch.

7973.

In ditch.

7974.

In ditch.

7975.

In ditch.

28
7976. Linum
In savanna.

7977.
In ditch.

79

June 13, 1988. M'. Mobile Co. Dauphin Island. Salt
Marsh at
airport.
w/ Andreas Daehnick

7978.

7979.

7980. Distichlis spicata (L.) Greene

7981. Spartina

7982. Sabatia

June 16, 1988. AL: Mobile Co., Dauphin Island. Marsh at airport.
 Salt
 w/ Marine Botany Class.

7983.

7984. Borrchia frutescens (L.) DC

7985. Cynanchum angustifolium Pers.

7986. Spartina

7987. CaKile constricta Rodman.
 On sand.

7988. Ulva lactuca var. latissima (L.) deCandolle In shallow
 water of Mississippi Sound.

June 19, 1988. AL: ~~Barth~~ Mobile Co.; Savanna along hiway
188, ca. 5 miles west of junct 193.

7989. Sabatia

In savanna.

7990. Rhexia lutea Walt. Scattered throughout savanna.

7991. Polygala

Scattered through savanna.

7992. Smilax

Infrequent in savanna.

7993. Hypericum

7994. Smilax

7995.

In ditch.

7996. Sarracenia psittacina Michx.

Scattered.

June 19, 1988. AL: Mobile Co. Dauphin Island. Sea Lab grounds. Disturbed.

7997. Richardia humistrata (C. + S.) Steud.

7998. Stylisma patens (Desr.) McInt

7999. Portulaca

8000. Ago

8001. Verbena halei Small.

8002.

8003.

8004. Sida

8005. Cenchrus

8006 .

8007 .

8008. Zanthoxylum clava-herculis L.

8009 .

8010. Lantana camara L.

June 19, 1988. AL: Mobile Co., Dauphin Island. Airport Salt marsh.

8011. Neptunia pubescens Benth. at edge of marsh.

8012. Ipomoea

June 19, 1988. AL: Mobile Co., Dauphin Island. On dunes on east side of Fort Gaines.

8013. Ipomoea

June 19, 1988. AL: Mobile Co., Dauphin Island. Inner beach area on south side of sea Lab.

w/ C.C.K. Timme

8014. Rhexia

8015.

8016. Paronychia erecta (Chapm.) Shinnars
Frequent on sand.

8017.

8018

8019.

8020.

June 23, 1988. AL: Mobile Co., Dauphin Island. Near
channel pools at end of pavement.

w/ Marine Botany Class.

8021. Hydrocotyl

8022.

8023.

8024. Spartina

8025. Spartina

8026. Paspalum

8027. Borrchia

8028.

8029.

June 23, 1988. AL: Mobile Co., ~~a~~ Dauphin Island. Old
Holiday Inn Site.

w/ Marine Botany Class.

8030. Chasmanthium

8031.

8032.

8033. Smilax

June 23, 1988. AL: Mobile Co., Dauphin Island. Airport Salt Marsh.
w/ Botany Class.

8034. Cenchrus

8035. Spartina

8036. Setaria

8037. (097)

8038-

8039. Cynanchum

8040.

8041.

8042. Neptunia pubescens Benth.

8043.

8044. Distichlis spicata (L.) Greene

8045.

8046.

8047.

June 23, 1988. AL: Mobile Co., Dauphin Island. Audubon
Trail.
w/ Marine Botany Class.

8048.

8049.

8050.

At edge of lake.

8051.

At edge of lake.

8052.

At edge of lake.

8053.

At edge of lake.

8054. Cnidosculus

8055.

8056.

8057. Eupatorium

8058.

8059. Cephalanthus occidentalis
At edge of lake.

8060. Polygala

8061. Polygala

8062. Polygonum
In swamp.

8063.

Along trail near parking lot.

8064. Pinus8065. Sapium

At east side of lake.

8066. Smilax8067. ~~Paspalum~~8068. Paspalum8069. Quercus8070. Magnolia

8071.

8072.

8073. Cyrtilla

8074. Quercus

8075.

8076.

8077.

8078.

Along trail.

8079.

On live oak.

8080. Frullania Kunzei

On live oak

June 26, 1988. AL: Mobile Co., Dauphin Island. Audubon
Trail.

w/ C.C.K. Timme

8081.

8082. Quercus

8083.

8084.

8085.

Trail leading to beach.

June 29, 1988. AL: Mobile Co. Savanna along hiway 188.

8086.

8087. Xyris

8088. Polygala

8089.

8090. Lycopodium

8091.

8092. Lobelia

8093. Eupatorium

8094. Ctenium aromaticum (Walt.) Wood

8095.

8096. Sabatia

8097.

8098. Polygala

8099. Lachnanthes caroliniana (Lam.) Dandy

8100.

8101

8102. Paspalum

8103.

Dauphin Island

June 29, 1988. AL: Mobile Co., Airport Salt Marsh.

8103. Distichlis spicata (L.) Greene

8104.

8105.

8106.

8107.

June 30, 1988. AL: Mobile Co. Little Dauphin Island.

w/ Marine Botany Class

8108.

8109. Erythrina herbacea L.

8110

8111.

8112. Cakile constricta Rodman

8113 Serenoa repens (Bartr.) Small

8114 Borreria frutescens

8115.

8116.

8117. Physalis

Near salt water pool.

8118.

8119. Setaria

8120.

8121.

8122.

8123.

June 30, 1988. AL: Mobile Co., Sand Island.

w/ Marine Botany Class.

8124. CaKile constricta Rodman

8125.

Near salt water pool.

8126. Spartina

8127.

July 1, 1988. MS.

Along Pecan Rd.

8128. Buchnera

8129. Sarracenia

8130.

8131.

8132.

8133.

8134,

July 1, 1988. AL: Mobile Co., Savanna along hiway 188 ~1 mile west of Fowl River bridge.

8135. Sarracenia purpurea L.

8136.

July 2, 1988. AL: Mobile Co., In slough along hiway
193 ~ 0.8 miles south of junction 188.

8137. Spartina

July 4, 1988. MS: Pearl River Co., Savanna just north of
Picayune.

w/ Marine Botany Class.

8138. Quercus

8133.

8134.

8135.

8136.

8137. Centella asiatica (L.) Urban

8138

~~8139~~.

July 4, 1988. MS:

Swamp and flatwood - savanna.

8139. Polygala

8140.

8141.

8142.

32
8143. Prunus

8144. Lycopodium

8145. Aster
In pinewoods

8146.

8147. Lachnanthes caroliniana (Lam.) Dandy
In savanna.

8148. Lophiola americana (Pursh) Wood

8149. Cyrtilla

8150. Conospermum

8151.
On soil at base of tree.

8152. Odontoschisma

On base of tree.

8153. Pallivicia

8154. Leucolejeunea

8155.

On aerial roots of Conospermum

8156.

On aerial roots of Conospermum

8157.

On aerial roots of Conospermum.

July 4, 1988. MS:

Buttercup Flats.

w/ Marine Botany Class.

8158.

8159. Sabatia

8160.

8161.

July 4, 1988. MS: Pearl River Co.,

w/ Marine Botany Class.

8162. Rhyncospora

July 8, 1988. AL: Mobile Co., Port Aux Pines.

w/ A. Daehnick.

8163. Sesbania punicea (Cav.) Benth.

8164.

8165.

8166. Magnolia

8167.

8168. Spartina

8169.

8170.

July 8, 1988. AL: Mobile Co., Dauphin Island Audubon
Trail.

8171.

8172. Lycopodium

July 8, 1988. AL. Mobile Co., Port Aux Pines.

8173.

8174. Linum

8175.

8176. Eupatorium

8177.

8178

8179.

8180. Eriocaulon

8181.

8182

8183

July 10, 1988. FL:

Along hiway 98

~~818~~ Scrub Oak Forest and savanna.

w/ Marine Botany Class

8184.

Edge of forest.

8185.

8186.

8187. Smilax
In forest

8188.
Between forest and savanna.

8189. Polygala
In savanna.

8190. Sarracenia
In savanna.

8191. Sarracenia
In savanna

8192.

8193. Pinus echinata Mill.

8194. Pinus palustris Mill.

8195. Ceratiola ericoides Michx.

8196. Quercus

8197.

8198.

8199.

July 10, 1988. FL:

Port St. Joe.

w/ Marine Botany Class

8200. Sesuvium

8201. Gracilaria verrucosa (Hud.) Papenfuss. attached to shells in grassbeds.
8202. Laurencia obtusa (Hud.) Lamouroux attached to substrate in grassbeds.
8203. Laurencia poitei (Lamouroux) Howe. attached to substrate in grassbeds.
8204. Agardhiella tenera (J. Agardh) Schmitz attached to shells in grassbeds.
8205. Batophora oerstedii J. Agardh. attached to shells in grassbeds.
8206. Acetabularia crenulata Lamouroux attached to shells in grassbeds.
8207. Halodule wrightii Aschers.
8208. Thalassia testudinum Koenig
8209. Halophila engelmannii Aschers
8210. Stilophora rhizoides (Turner) J. Agardh. Epiphyte on Thalassia testudinum

8211. Cladophora sp.

8212. Enteromorpha intestinalis (L.) Link attached to rock
in shallow water.

8212a. Giffordia indica (Sonder) Popen. et Chih. . Attached to seagrass

July 10, 1988. FL:

Panama City; along

Thomas Drive ca 2 miles south of FL98.

w/ Marine Botany Class.

8213. Sesbania punicea (Cav.) Benth.

8214. Bidens pilosa L.

8215. Rhexia

8216. Rhexia

8217. Buchnera

8218.

8219.

8219a. Pluchea rosea Godfrey

8220.

8221.

8222.

8223. Padina vickersiae Hoyt - attached to submerged rocks.

8224. Ulva fasciata Delile - on rock jetties exposed to wave action.

8225. Sargassum filipendula C. Agardh. on submerged rock.

8226. Codium isthmocladum Vickers. on submerged rock.

8226a. Polysiphonia subtilissima Mont. on rock jetties.

July 11, 1988. FL: ca 1 mile west of
Destin on south side of FL.98 in swamp.

w/ Marine Botany Class.

8227.

8228. Nymphaea odorata Ait.

July 11, 1988. FL: Along hiway FL 98
ca .75 west of air base.

w/ Marine Botany Class.

8229.

8230.

8231.

8232.

8233.

July 11, 1988. AL: along Bon Secour
Trail off Ft. Morgan Rd.

w/ Marine Botany Class.

8234. Hypericum brachyphyllum (Spach) Steud.
In bog.

8235. Hypericum cistifolium Lam. margin of swamp.

8236.

July 12, 1988. AL: Mobile Co.; Dauphin Island. On soil
at base of Sea Lab library wall.

8237.

July 13, 1988. AL: Mobile Co., Dauphin Island. Beach area
at east end of island.

8238. Sargassum natans (L.) Gaillon on beach.

8239. Enteromorpha sp.
on rock jetties.

8240. Enteromorpha prolifera (Müller) J. Agardh attached to
rock jetties.

8241. Sargassum fluitans Børgesen. on beach.

July 13, 1988. AL: Mobile Co.; dredged up from Mississippi Sound between Dauphin Island and Little Dauphin Island.

8242. Enteromorpha intestinalis (L.) Link

8243. Hypnea musciformis (wulf.) Lamouroux

8244. Monostroma oxyspermum (Kützinger) Doty

8245. Gracilaria sp.

July 13, 1988. AL: ^{Mobile Co.} Dauphin Island. On ^{south} beach at end of pavement toward west end of island.

8246. Sargassum natans (L.) Gaillon washed up on beach.

July 14, 1988. AL: Mobile Co., Dauphin Island. Along
streets on south side of Bienville St. between
AL 193 and Audubon Trail.

8247.

8248. Smilax

8249. Hibiscus

8250. Guara

8251. Ludwigia

8252. Centrosema

8253. Ipomoea sagittata Poir.

8254. Commelina

8255. Wisteria

8256.

8257.

8258. Asclepias

8259. Pluchea

8260. Sagittaria

In ditch.

at Cadillac Park.

8261. Polygonum

In ditch

at Cadillac Park

8262.

In ditch at Cadillac Park.

8263.

8264. Oenothera

8265. Sabatia

In ditch at entrance to Audubon Trail from
Beinnville Street.

8266.

In ditch at Cadillac Park

8267.

8268.

In ditch at Cadillac Park.

8269.

In ditch at Cadillac Park.

8270.

In ditch at Cadillac Park.

8271.

8272.

8273. Chasmanthium

on dunes of Audubon Trail.

8274. Vernonia

At Audubon Trail head from Parking Lot.

8275. Liquidambar

Along Beaville Street just west of Cadillac Park.

8275a.

In ditch at Cadillac Park.

July 14, 1988. AL: Mobile Co., Audubon Trail on Dauphin Island.

8276. Pycnanthemum

8277.

8278. Commelina

8279. Eupatorium

8280. Diodia

8281. Polygala

8282. Vitis

8283.

8284. Chrysoma pauciflosculosa (Michx.) Greene

8285. Sassafras

8286. Conradina canescens (T. & G.) Gray
On dunes.

8287.

8288.

8289.

on dunes.

8290. Rhexia

July 14, 1988. AL: Mobile Co., Dauphin Island - Salt marsh
at Airport, Mississippi Sound.

8291. Ulva lactuca var. latissima (L.) DeCandolle
On mud substrate of shallow water.

July 14, 1988. AL: Mobile Co., Savanna ca. miles west of
Fowl River Bridge along hiway 188.

8292. Polygala

8293.

8294.

8295. Sabatia

July 16, 1988. AL: Mobile Co.; Dauphin Island Sea Lab
area.

8296.

Near operations building.

8297.

On fence surrounding motor pool.

8298.

Near house 105.

8299. Richardia

Near house 105

8300. Paspalum

Near swimming pool.

8301.

Near Swimming Pool.

8302. Froelichia floridana (Nutt.) Moq.

Along street entrance to Marine Sciences Hall.

AL: Colbert Co., TVA trail at CCC picnic area.

w/ Wendy Gouder

8303

8304.

8305.

8306.

8307. Acer

8308.

8309.

8310. Cercis canadensis

On ridge.

8311. Quercus

8312. Smilax

8313. Setaria

8314. Smilax

8315. Cornus

8316.

8317.

8318.

8319.

8320.

8321.

8322.

8324.

8325.

8326.

8327. Vitis

8328. Carya

8329.

8330.

8331. Hydrangea

8332.

8333. Carya

8334. Quercus

8335.

8336.

8337. Carya

8338.

8339. Juniperus

8340.

8341.

8342. Quercus

July 27, 1988. AL: Colbert Co., Rockpile/Energy Trail on TVA land.

8343. Dianthus

along hiway in open field.

8344.

8345.

8346. Solanum

In picnic area.

8347. Commelina

In picnic area.

8348. Ipomoea

8349. Helinium

8350. Hypericum

8351.

8352.

In picnic area.

8353.

8354.

8355. Hydrangea

8356. Quercus

8357.

8358. Duchesnea indica (Andrz.) Focke

In picnic area.

8359. Lactuca

8360. Prunus

8361.

8362.

8363.

8364.

8365.

8366.

8367. Carya

8368.

8369.

8370. Morus

8371. Passiflora

8372.

8373. Hydrangea

8374.

8375.

8376. Quercus

8377. Lonicera

8378.

8379. Campsis

8380. Quercus

8381.

8382.

8383.

8384.

8385.

8386. Rubus

along northern edge of picnic area.

8387.

In picnic area.

8388. Paspalum

In picnic area.

8389. Rubus

along hiway at edge of field.

8390.

8391.

In picnic area.

8392. Smilax

8393.

8394. Quercus

8395.

8396. Asplenium platyneuron (L.) B.S.P. on rocky soil of north facing slope along trail.

8397. Rhus

August 15, 1988. AL: Colbert Co., TVA area.

8398.

8399.

8400.

8401. Tribulus terrestris L.

August 20, 1988. AL: Washington Co.; Below Tombigbee River
bridge on hiway 43. Slough. T6N R1E

w/ Linda D. Jackson

8402.

8403. Hibiscus

8404.

August. 21, 1988. AL: Mobile Co.; Dauphin Island.
Along Audubon trail.

w/ Linda D. Jackson.

8405.

8406.

8407.

8408

8409. Hypericum

8410.

8411.

8412. Euphorbia

8413.

8414.

8415. Rhus

8416. Quercus

8418. Asclepias

8419.

8420. Elepha

August 21, 1988. AL: Mobile Co., along HWY 193 ca. .25 mile south of junct. AL 188.

8421.

8422. Pleuro

8423.

August 21, 1988. AL: Mobile Co., along AL 188 ca. 1 mile west of Fowl River bridge.

8424. Hypericum

8425.

8426.

8427. Eupatorium

8428.

8429.

8430.

8431.

8432. Lobelia

8433.

8434.

8435. Vernonia

8436. Polygala

8437.

8438.

8439.

August 21, 1988. AL: mobile Co., In ditch at Cadillac Park on Dauphin Island.

8440.

8441.

8442.

August 21, 1988. AL: Mobile Co., Airport Salt Marsh on Dauphin Island.

8443. Cynanchum

8444.

8445

8446.

8447.

8448.

Aug. 22, 1988. AL: mobile Bay ; ca. .25 mile south of
junct. 188 along AL 193.

8449.

8450.

8451.

8452.

Sept. 10, 1988. AL: Colbert Co., TVA.

w/ Wendy Gowder

8453.

8454.

8455.

8456.

8457.

8458. Acer

8459.

8460. Euphorbia

8461.

8462.

8463.

8464. Euphorbia

8465. Quercus

8466.

8467. Hydrangea

8468. Euphorbia

8469.

8470.

8471. Quercus

8472. Quercus

8473. Quercus

8474.

8475.

8476. Rhus

8477. Asimina

8478.

8479. Carya

8480.

8481.

September 12, 1988. AL: Marion Co. Ravine and Glade area
at Northfork Creek on Hwy 43.

8482.

Along streambank.

8483. Panicum

Along streambank.

8484. Itea virginica
Along streambank.

8485.
Along Streambank.

8486. Cephalanthus occidentalis
Along streambank.

8487.
Along streambank.

8488. Mimulus
Along streambank.

8489.
Along stream.

8490.
Along stream.

8491. Lobelia cardinalis
Along stream.

8492.
Along stream.

8493. Mikania

Along stream.

8494. Ilex

Along stream.

8495.

On sandstone bluff.

8496.

On sandstone bluff.

8497. Rhododendron

Along stream.

8498.

On slope.

8499. Pinus virginicus

On sandstone outcrop.

8500. Quercus

On sandstone outcrop.

8501.

In stream attached to sandstone rock.

8502. Quercus

On sandstone outcrop.

8503. Magnolia

On soil of slope between stream
and bluff.

8504.

On sandstone outcrop.

September 20, 1988. AL: Lauderdale Co., along roadside
off Waterloo Road at Waterloo.

8505. Quercus

September 22, 1988. AL: Colbert Co., TVA land.

8506. Ipomea

Open waste area.

8507. Vernonia

Open waste area.

8508. Helianthus

In open waste area.

8509.

on dry bank of intermittent stream.

8510.

In woods climbing on tree.

8511. Rhus

Edge of woods and waste area.

8512.

Edge of woods and waste area.

8513.

Edge of woods and waste area.

8514.

In woods.

8515.

In woods.

8516. Physalis
In waste area.

8517.
In woods.

8518.
In open waste area.

8519. Polygonum
In open waste area.

8520. Celtis
Edge of woods and waste area.

8521. Cornus
In woods.

8522.
Edge of woods and open ground.

8523. Pinus
Edge of woods and open ground.

8524. Prunus
In woods.

8525. Quercus
In woods.

September 22, 1988. AL:

Along hiway 157

on soil over limestone roadcut.

8526. Salvia azure

8527. Kuhnia

September 22, 1988. AL: Cullman Co. Hurricane

R3W

w/Wayne Cannis

8528

8529.

8530.

8531.

8532.

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8534.

8535.

8536.

8537.

8538.

8539.

8540.

September 30, 1988. GA. Walker Co., ca. 1.3 mile south
of Hog Jowl Road, 2.8 mile from jct. GA193
and GA341 ~~to~~ on Hog Jowl Road to Pocket Road.
Blomquist Bryological Foray

8541.

8542.

8543.

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8556.

8557.

8558

8558a. Palmetto

Dade Co.,
September 30, 1988. GA. Cloudland Canyon State Park.
Along Sitton Creek from Canyon Park Estates off
GA136.

w/Blomquist Foray.

8559

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8562.

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8566.

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8568.

8569.

8570.

8571. Porella pinnata L.

on tree roots in stream.

8572.

8573.

8574.

8575.

8576.

8577.

8578.

8579.

8580.

8581.

8581a.

October 1, 1988. GA: Dade Co. Cloudland Canyon State
Park. Near Group Lodge.

w/ Blomquist Bryological Foray.

8582. Quercus8583. Quercus

October 1, 1988. GA: Catoosa Co., Chickamauga and
Chattanooga National Military Park. Off Brotherton Rd
east of Lafayette Rd. Lat. $34^{\circ}55'N$ Long. $85^{\circ}15'W$ Elev. 230m.

8584.

8585.

8586.

8587.

8588.

✓ 8589 Clasmatodon parvulus (Hampe) Hook. & Wils. ex Sull.

8590.

8591.

8592.

8593.

8594.

8595.

October 6, 1988. AL: Lauderdale Co., King Spring

8596.

8597.

8598.

October 6, 1988. AL: Lauderdale Co., Wildwood Park.

8599. Conocephalum conicum (L.) Und.

8596a.

October 9, 1988. MO:

w/ T. Townsel

8597a. Taxodium distichum (L.) L.C. Rich.

✓
October 30, 1988. AL: Marion Co. North Fork drainage at
AL43 bridge. Along bluffs east of bridge.

w/ Traci Townsel

8598a.

8599a. Conocephalum conicum (L.) und.

✓
8600.

On sandstone boulder in cave.

✓

8601.

On verticle Sandstone in cave.

8602. Sphagnum

In spring at mouth of cave.

8603. Fissidens

On moist soil of sandstone ledge.

8604. Scapania nemorosa (L.) Dum.

On log at edge of North Fork Creek.

8605. Lecolejeunea clypeata (Schwein.) Evs.

on trunk of Magnolia macrophylla Michx.

8606. Leucolejeunea clypeata (Schwein.) Evs.

on trunk of Quercus spp.

*

8607.

On sandstone of cave mouth.

check

8608. Pellia epiphylla (L.) Corda
on sandstone in cave.

check

8609. Aneura pinguis (L.) Dum.
on sandstone in cave.

✓

8610.
on soil over sandstone in cave.

8611. Leucolejeunea clypeata (Schwein.) Evs.
on verticle sandstone boulder.

8612. Cheilolejeunea rigidula (mont.) Schust.
On verticle sandstone boulder mixed with 8611.

8613. Leucolejeunea clypeata (Schwein.) Evs.
on log.

8613a. Hypnum curvifolium Hedw. On log.

8614. Bazzania trilobata (L.) S. Gray
At base of sandstone bluff on ledge.

8615. Radula australis Aust.
On dead root.

8616. Selaginella apoda
On soil over sandstone at mouth of cave. above ^{North Fork} Creek.

8617. Aneura pinguis (L.) Dum.
On sandstone at mouth of cave above North Fork Creek.

8618. Mnium affine Bland. ex Funck
On soil along North Fork Creek. Artheridial Heads.

8619. Pallavicinia lyellii (Hook.) Carruth.
Base of sandstone overhang at waterline above North Fork Creek.

8620. Fissidens osmundioides Hedw.
On sandstone boulder near North Fork Creek.

8621. Leucolejeunea clypeata (Schwein.) Evs.
On sandstone boulder near North Fork Creek.

8622. Scapania nemorosa (L.) Dum.

On sandstone boulder near North Fork Creek.

8623. Sphagnum

On wet sandstone at mouth of cave above North Fork Creek.

8624. Frullania tamarisci subsp. asagrayana (mont.) Hatt.

On trunk of Magnolia macrophylla Michx.

8624a. Leucolejeunea clypeata (Schwein.) Evers.

8625. Odontoschisma prostratum (Sw.) Trev.

^{Spring}
In water at mouth of cave above North Fork Creek.

8626.

In water (Spring) at mouth of cave above North Fork Creek.

^{chek}

8627. Aneura pinguis (L.) Dum.

On sandstone at mouth of cave above North Fork Creek.

^{chek}

8628. Aneura pinguis (L.) Dum.

On soil at edge of North Fork Creek.

8629. Pallavicinia lyellii (Hook.) Carruth.

On soil over sandstone in cave above North Fork Creek.

8630. Dumortiera hirsuta (Sw.) Nees

On soil over sandstone in cave above North Fork Creek.

8631. Pallavicinia lyellii (Hook.) Carruth.

On soil over sandstone in cave above North Fork Creek.

8632. Pellia epiphylla (L.) Corda

On soil over sandstone in cave above North Fork Creek.

8633. Pallavicinia lyellii (Hook.) Carruth.

On soil of sandstone ledge near North Fork Creek.

8634. Dumortiera hirsuta (Sw.) Nees

On vertical sandstone wall of cave above North Fork Creek.

8635. Pallavicinia lyellii (Hook.) Carruth.

On vertical sandstone wall of cave above North Fork Creek.

8636. Fissidens polypodioides

On vertical sandstone wall of cave above North Fork Creek

8637. Pellia epiphylla (L.) Corda

On soil below sandstone overhang near North Fork Creek.

8637a. Lejeunea sp.

8638. Jubula pennsylvanica (Steph.) Evs.

On soil below sandstone overhang near North Fork Creek.

8639. Fissidens polypodioides Hedw.

On wet soil over sandstone at mouth of cave above North Fork Creek.

8640. Pallavicinia lyellii (Hook.) Carruth.

On soil near mouth of spring in cave above North Fork Creek.

8641. Frullania brittoniae Evs.

Underneath sandstone overhang of spring just below cave.

8642. Pallavicinia lyellii (Hook.) Carruth.

On soil over sandstone at mouth of cave above North Fork Creek.

8643. Scapania nemorosa (L.) Dom.

On soil over sandstone boulder near North Fork Creek.

8644. Pellia epiphylla (L.) Corda

Adjacent to spring mouth in cave above North Fork Creek.

8645.

Adjacent to mouth of spring in cave above North Fork Creek.

8646. Sphagnum

Adjacent to North Fork Creek on sandstone ledge.

8647. Leucobryum conchifolia Evs.

On Fagus grandifolia Ehrhart near North Fork Creek.

8648. Bazzania trilobata (L.) S. Gray

On sandstone below overhang above North Fork Creek.

8649. Thelia hintella (Hedw.) Sull.

On trunk of Hamamelis virginiana L. at edge of North Fork Creek.

8650. Bazzania trilobata (L.) S. Gray
on base of Rhododendron canescens (Michx.) Sw. near
North Fork Creek.

8651. Frullania tamarisci subsp. asagrayana (Mont.) Hall.
On tree trunk below bluff.

8651a. Leucolejeunea clypeata (Schwein.) Evs.

8652. Dicranum fulvum Hook.
on shaded sandstone below bluff.

8653. Dicranum condensatum Hedw.
on exposed sandstone of upper bluff.

8654. Grimmia laevigata (Brid.) Brid.
On exposed sandstone of upper bluff.

8655. Scapania nemorosa (L.) Dum.
On shaded sandstone boulder.

8655a. Leucolejeunea clypeata (Schwein.) Evs.

8656. Odontoschisma denudatum (Nees) Dum.
On shaded sandstone.

8657. Atrichum angustatum (Brid.) BSG
On bank of North Fork Creek. Shaded.

8658. Frullania tamarisci subsp. asagrayana (mont.) Hatt.
On sandstone beneath overhang.

8658a. Lejeunea cladogyna Evs.

8658b. Cheilolejeunea rigidula (Nees & Mont.) Schust.

8659. Frullania tamarisci subsp. asagrayana (mont.) Hatt.
On sandstone below overhang.

8660. Leucobryum albidum (Brid.) Lindb.
On shaded sandstone boulder.

8661. Dicranum fulvum Hook.
On sandstone below overhang.

8662. Bazzania trilobata (L.) S. Gray
On vertical sandstone beneath ledge.

8663. Leucobryum albidum (Brid.) Lindb.
On vertical sandstone beneath ledge.

8664. Anomodon minor (Hedw.) Färnrr.

On soil over base of Quercus sp.

October 30, 1988. AL: Lauderdale Co. ca. 2.0 miles north of hwy

133 on east side of Co. Rd. 41;

"Ghost Bridge" crossing Big Cypress Creek. T2S R4W S3 N64
w/ Traci Townsend

8665. Lophocolea bidentata (L.) Dum.

On log. Partial Shade. Near Cypress Creek.

8666. Leucolejeunea clypeata (Schwein.) Evs.

On log. Partial Shade. Near Cypress Creek.

8667. Fissidens subbasilaris Hedw.

On log. Partial Shade; near Cypress Creek.

8668. Atrichum angustatum

On soil; Partial Shade; near Cypress Creek.
w/ sporophytes.

✓
8669.

On exposed soil near Cypress Creek.

8670. Entodon seductrix (Hedw.) C.m.

On log; partial shade; near Cypress Creek.
w/ sporophytes.

October 30, 1988. AL: Marion Co., North Fork Creek at
Highway 43 bridge.

w/ Traci Townsel

8671.

8672. Aster

8673.

8674.

8675 Scapania nemorosa (L.) Dum.

8676. Cephalozia lunulifolia (Dum.) Dum.

8677. Riccardia latifrons Lindb.
On log in creek.

8678 Pallavicinia lyelli: (Hook.) Carruth.

8679. Conocephalum conicum (L.) Lindb.

October 31, 1988. AL: Lauderdale Co. - 818 Ridgeway

8680

8681.

November 19, 1988. AL: Marion County. Northfork drainage at Hwy 43 bridge. Under small overhang with spring and along bluff.
w/ C. Timme

8682. Pellia epiphylla (L.) Corda
Abundant on wet sandstone of cave.

8683. Atrichum undulatum (Hedw.) P.-Beauv.
Abundant on soil of stream bank. Shaded.

8684. Selaginella apoda (L.) Fern. N.-
Abundant on wet, rocky sandstone slope.
Mixed w/ 8685

8685. Thuidium delicatulum (Hedw.) BSG.

Abundant on wet, rocky sandstone N-facing slope.
Mixed w/ 8684.

8686. Frullania

Abundant at base of tree.

8687. Dumortiera hirsuta (Sw.) Nees

Abundant on wet sandstone of cave.

8688. Pellia epiphylla (L.) Corda

Abundant on vertical sandstone.

8689. Hypnum imponens Hedw.

Abundant on soil of stream bank.

8690. Leucobryum albidum (Brid.) Lindb.

Abundant on sandstone ledge.

8691. Leucobryum albidum (Brid.) Lindb.

Abundant on soil near stream.

8692. Anomodon attenuatus (Hedw.) Hüb.

On log.

8693. Leucolejeunea clypeata (Schwein.) Evans

8694. Radula obconica Sull.
Sparse on log.
8695. Odontoschisma prostratum (Sw.) Trev.
Abundant over ~~log~~ sandstone ledge. Mixed
with Leucobryum albidum (Brid.) Lindb.
8696. Hedwigia ciliata (Hedw.) P. - Beauv.
On exposed sandstone boulder.
8697. Odontoschisma prostratum (Sw.) Trev.
On sandy soil near stream.
8698. Leucolejeunea clypeata (Schwein.) Evans ✓
On vertical sandstone wall. Abundant
8699. Leucobryum glaucum (Hedw.) Ångstr. ex Fries
On soil of south-facing slope. w/ sporophytes
8700. Thuidium delicatulum (Hedw.) BSG.
Abundant on shaded soil near stream.
8701. Fissidens osmundioides Hedw.
On soil at mouth of cave.
8702. Leucolejeunea clypeata (Schwein.) Evans
On thin soil over sandstone.

8703. Fissidens cristatus Wils. ex M.H.

Base of Quercus alba L. w/ sporophytes

8704.

On sandy soil of streambank.

Oil bodies 2-4/cell, oblong-elongate, mammilose

8705. Sematophyllum marylandicum (C.M.) E.G. Britt.

Abundant on rocks in stream.

8706. Leucolejeunea clypeata (Schwein.) Evans

On vertical sandstone wall.

8707. Diplophyllum apiculatum (Evs.) Steph.

On vertical sandstone.

8708. Syrrophodon texanus Sull.

On sandstone in cave and at mouth of cave.

w/ sporophytes.

8709. Calypogeia fissa (L.) Raddi

On thin soil over sandstone.

8710. Sciaromium lescurii (Sull.) Broth.

On rocks in stream.

8711. Pallavicinia lyellii (Hook.) Carruth.
On sandstone (wet) at cave entrance.

8712.

On log. Mixed w/ 8713 & 8714

8713. Frullania donnelli Aust.
On log. Mixed w/ 8712 & 8714

8714. Pylaisiella selwynii (Kindb.) Crom, Steere & Anders.
On log mixed with 8713 & 8712.
with sporophytes

8715. Fontinalis
Attached to rocks in stream.

8716. Scapania nemorosa (L.) Dum.
On soil over sandstone boulder. mixed w/ 8717.

8717. Cephalozia connivens (Dicks.) Lindb.
On moist sandy soil over sandstone.
Mixed w/ 8716.

8718. Jubula pennsylvanica (Steph.) Evans.
On wet vertical sandstone.

8719.

on sandy soil in crevice of sandstone.

8720. Leucobryum glaucum (Hedw.) Ångstr. ex Fries
On soil of south-facing slope.

8721. Radula australis Aust.

On sandy soil over sandstone. Mixed with 8722.

8722. Odontoschisma prostratum (Sw.) Trev.

On sandy soil over sandstone. Mixed with 8721.

8723. Frullania

On very wet sandstone at mouth of small cave.

8724. Pyloisiella selwynii (Kindb.) Grun

Bark of Juniperus virginiana L.

8725. Pogonatum brachyphyllum (Mx.) P.-Beauv.

On soil of road bank.

8726. Polytrichum commune var. perigoniale (Mx.) Hampe

On soil over sandstone beneath vaccinium.

8727. Forsstroemia trichomitria (Hedw.) Lindb.

On bark of Quercus sp.

8728. Polytrichum juniperum Hedw.
On dry soil over exposed sandstone.

8729. Weissia controversa Hedw.
On sandy soil of road bank.

8730. Riccardia chamedryfolia (With.) Grolle
On soil over sandstone ledge in deeply
shaded wall of small cave.

8731. Fissidens polypodioides Hedw.
On soil over sandstone of cave entrance.
Very abundant. wet.

AL:

November 21, 1988. Lauderdale Co., On wood shingle of
Small out building. On Co. Rd. 29 off Hwy 43 E, 72.
Home of Walt and Dot Borch. N. Road. to the N. just
TAS RIDW across Shoals Creek Bridge

8732.

⁵
8733. Entodon seductrix (Hedw.) C.M.
Abundant.

December 25, 1988. KS. Sumner Co.,

Farm of Clifford & Flossie Knight.

8734. Gymnocladus dioicus (L.) K. Koch.
Scattered in disturbed sites.

8735. Acer saccharinum L.
Planted as an ornamental.

8736. Celtis occidentalis L.
Scattered in disturbed ^{areas} and along Bluff Creek
bottomland.

8737 Catalpa speciosa Warder - Along roadways.

8738 Sapindus drummondii Hook. & Arn. Along roadway and fence rows.

8739. Juniperus virginiana L.
Along roadsides, scattered in woods, yards.

8740. Solanum rostratum Don.
Scattered in disturbed sites.

8741. Symphoricarpos obiculatus Moench
Along roadsides, old fields, open woods.

Clifty Crk.

January 6, 1989. AL: Marion Co., Northfork Crk. east of
Hwy 43 bridge.

w/ Dianne Jackson

8742. Atrichum angustatum (Brid.) BSG.

Abundant at base of Quercus sp. at edge of
old logging road. w/ sporophytes.

8743. Fontinalis

on rock in Clifty Creek.

8744. Syrrophodon texanus Sull.

On vertical sandstone wall along Clifty Creek.
w/ sporophytes

8745. Campylopus pilifer Brid.

Abundant on sandy soil over sandstone along old
logging road north and east of bridge.

8746. Cephaloziella hyalina Douin

On rotten Juniperus virginiana log.
mixed w/ 8747.

8747. Odontoschisma prostratum (Sw.) Trev.

On rotten Juniperus virginiana log.
mixed w/ 8746.

8748. Fissidens bushii (Card. & Thér.) Card. & Thér.

On soil at base of Quercus sp. along logging road south of Northfork CK.

8749. Leucolejeunea clypeata (Schwein.) Evans

On beech along Clifty Creek.

8750. Leucolejeunea clypeata (Schwein.) Evans

8750a. mixed with Frullania tamarisci subsp. asagrayana (Mont.) Hatt
Abundant on Acer sp. growing across Clifty Creek.

?
8751. Chiloscyphus pallescens (Ehrh.) Dumort.

On sandstone (dripping) ledge along Northfork Creek.

8752. Diplophyllum apiculatum (Evans) Steph.

On dripping sandstone ledge growing over Pellia epiphylla and mixed with 8751 & 8754.

8753. Pellia epiphylla (L.) Corda

On dripping sandstone ledge. mixed with 8752, 8751, and 8754.

8754. Odontoschisma prostratum (Sw.) Trev.

On dripping sandstone mixed w/ 8751, 8752, 8753.

8755. Ditrichum pallidum (Hedw.) Hampe

On old logging road south of Northfork CK.
w/ sporophytes

8756. Scapania nemorosa (L.) Dum.

On moist soil over sandstone ledge along Clifty Creek. Mixed w/ Pallavicinia lyellii.

8757. Sphagnum

On wet ^{vertical} sandstone wall. Northfacing
At mouth of overhang.

8758. Leucolejeunea uncinata (Lindb.) Evans

On Quercus log across Clifty Creek.
fertile.

8759. Tubula pennsylvanica (Steph.) Evans.

On wet vertical sandstone wall along Clifty Creek.

8760. Aulacomnium heterostichum (Hedw.) BSG

At base of Acer.

8761. Thuidium delicatulum (Hedw.) BSG

Abundant on soil over sandstone boulder
of ~~soil~~ northfacing slope along Northfork Creek.
mixed w/ 8762, 8763 and Bryoandersonia illecebra

8762. Mnium affine Bland. ex Funck

on soil over sandstone boulder of northfacing
slope along Northfork Creek.

mixed w/ 8761 + 8762 + Bryoandersonia illecebra

8763. Rhynchostegium serrulatum (Hedw.) Jaeg. & Sauerb.
On soil over sandstone boulder of northfacing slope
along Northfork Creek. Mixed w/ 8761, 8762 and
Bryoandersonia illecebra. w/ sporophytes.

8764. Leucolejeunea conchifolia Evans
On rotted cedar log over Clitty Creek, mixed
with 8765.

8765. Sematophyllum adnatum (Mx.) E.G. Britt.
On rotted cedar log over Clitty Creek. Mixed
with 8764.

8766. Ptychomitrium incurvum (Schwaegr.) Spruce
On ceiling of sandstone overhang along Clitty Creek.

Jan. 15, 1989. AL: Franklin Co., Isbell Church area; just N of
junct hwy. 36 on east side of hwy 43. Limestone glade.
T75 R12W512

8767. Leucodon julaceus (Hedw.) Sull.
Abundant on Elm. w/ sporophytes
w/ Caleb Timme

January 15, 1989. AL: Colbert Co., Buzzard Roost Spring at
 junct. of Natchez Trace and Hwy. 72. Quercus/Pinus
 Forest. T3S R14W S32
 w/ Caleb Timme

8768. Frullania inflata Gott.
 On Hackberry. w/ sporophytes

8769. Clasmatodon parvulus (Hampe) Hook. & Wils. ex Sull.
 On log, recently fallen.

8770. Leucodon julaceus (Hedw.) Sull.
 On log. Abundant. w/ sporophytes.

8771. Porella platyphylla (L.) Lindb.
 On log. Scarce.

8772. Clasmatodon parvulus (Hampe) Hook. & Wils. ex Sull.
 On log. w/ sporophytes.

8773. Anomodon rostratus (Hedw.) Schimp.
 On rock face, ss, abundant

8774. Anomodon attenuatus (Hedw.) Hüb
 On rock face, abundant
 ss.

8775.

January 15, 1989. MS: Tishomingo Co., Cave spring along
Natchez Trace ca. 1/2 m SW of AL state line.
TSS RIDE S16. w/ Caleb Timme

8776. Ulmus alata Michx.

Edge of pasture near cave.

8777. Alnus serrulata (Ait.) Willd. on top of cave
at edge of pasture. w/ male flowers

Tishomingo Co.
January 15, 1989. MS: Tishomingo State Park. At CCC Lake.
Below dam and "log cabin" site just W of park road.
TSS RIDE S36 NE4.
w/ Caleb Timme

⁵ 8778. Thelia hirtella (Hedw.) Sull.

Abundant at base of Acer sp. w/ sporophytes.

8779. Frullania squarrosa (Reinw., Blume & Nees) Nees
On log. Infrequent.
8780. Lecolejeunea clypeata (Schwein.) Evans
On Quercus sp., Abundant
8781. Lophocolea heterophylla (Schrad.) Dum.
On sandstone boulder. w/ sporophytes.
mixed w/ 8782
8782. Leucolejeunea clypeata (Schwein.) Evans.
On sandstone boulder.
mixed w/ 8781.
8783. Porella pinnata L.
On sandstone boulder. mixed w/ 8784 & 8785
8784. Plagiochila virginica EVS.
On sandstone boulder
mixed w/ 8785 & 8783
8785. Leucolejeunea clypeata (Schwein.) Evans.
On sandstone boulder. Abundant
mixed w/ 8784 & 8783
8786. Frullania squarrosa (Reinw., Blume & Nees) Nees
On sandstone boulder.
mixed w/ Leucolejeunea clypeata.

January 20, 1989. TN: Wayne Co. Glenrock Picnic area along Natchez Trace Pkway. Ca. 4.5 miles SW of jct. 64. Hardwood forest w/ limestone outcrops. Along Glenrock Br. w/ L.D. Jackson

⁴
8787. Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer & Scherb.
Abundant on wet ss rocks in

⁴
8788. Dicranum scoparium Hedw.
On soil in open woods. Abundant - w/ sporophytes

³
8789. Amblystegium riparium (Hedw.) BSG
On wet rock along stream. Abundant.

³
8790. Fissidens taxifolius Hedw.
Wet soil over ss along

¹
8791. Trichocolea tomentella (Ehrh.) Dum.
Abundant on moist soil over ss along

²
8792. Mnium affine var. ciliare C.m.
Abundant on rotten wood in intermittent channel above w/ sporophytes.

8793. Dumortiera hirsuta (Sw.) Nees.
Abundant on ~~ls~~ beneath ledge. Mixed w/ Conocephalum conicum and Mnium punctatum.

- 3
8794. Fissidens cristatus Wils. ex Mitt.
Frequent on ss rock along
- 3
8795. Leucolejeunea uncioba (Lindenb.) Evans
Abundant on Quercus sp.
- 1
8796. Thelia hirtella (Hedw.) Sull.
On bark at base of Quercus sp.
- 1
8797. Radula australis Aust.
Infrequent on Magnolia sp. w/marginal gemmae
mixed w/ Leucolejeunea uncioba and Frullania
eboracensis; Anomodon sp.
- 1
8798. Porella pinnata L.
Frequent on roots in
- 1
8799. Lophocolea bidentata (L.) Dumort.
on dead stem at edge of
- 2
8800 Climacium americanum Brid.
Common on soil over ss ledges and base
of verticle ss.
- 1 5
8801. Odontoschisma prostratum (Sw.) Trev.
Abundant on soil over ss.
mixed w/ Trichocolea tomentella

- 4 8802. Leucobryum albidum (Brid.) Lindb.
Common on soil over ss at base of bluff. w/ sporophytes.
- 4 8803. Thelia hirtella (Hedw.) Sull.
Abundant on decayed log.
- 1 8804. Forsstromia trichomitria (Hedw.) Lindb.
Uncommon on log.
- 2 8805. Porella platyphylla (L.) Pfeiff.
On decaying log mixed w/ 8806, 8807
- 5 8806 Entodon seductrix (Hedw.) c.m.
Abundant on log; w/ sporophytes w/ 8807 + 8805
- 1 8807 Anomodon rugelii: (c.m.) Keissl.
Uncommon on log. mixed w/ 8806 & 8805
- 5 8808 Odontoschisma prostratum (Sw.) Trev.
Common on soil over ss.
- 5 8809 Scapania nemorosa (L.) Dum.
Abundant on soil of slope ^{rocky}.
mixed w/ Bartramia pomiformis.

4
8810. Leucobryum albidum (Brid.) Lindb.
Abundant on soil at base of bluff.

5
8811 Bartramia pomiformis Hedw.
Abundant on soil over SS rock.
mixed w/ 8812 w/ sporophytes

4
8812. Aulacomnium heterostichum (Hedw.) BSG.
Abundant ~~at~~ on soil over SS rock.
mixed w/ 8811.

8813. Dicranum scoparium Hedw.
Abundant on soil near
w/ sporophytes.

3
8814. Conocephalum conicum (L.) Lindb.
Frequent on thin soil over SS rock
at edge of
mixed w/ Amblystegium tenax

2
8815. Amblystegium tenax (Hedw.) C. Jens.
Frequent on thin soil over SS rock
at edge of
mixed w/ 8814.

8816. Damortiera hirsuta (Sw.) Nees
Abundant on SS rock under overhangs.

8817. Fissidens bushii (Card. & Ther.) Card. & Ther.
mixed w/ 8818 on shaded soil at base
of Quercus sp.
8818. Ditrichum pallidum (Hedw.) Hampe
On shaded soil at base of Quercus sp.
mixed w/ 8817
8819. Platygyrium repens (Brid.) BSG.
Abundant on mixed w/ 8820
recently fallen tree.
8820. Clasmatodon parvulus (Hampe) Hook. & Wils. ex Sull.
Uncommon on recently fallen tree.
8821. Mnium punctatum Hedw.
Scattered on Conocephalum conicum; on thin soil
over ss rock at edge of
8822. Fissidens taxifolius Hedw.
On moist soil mixed with Conocephalum conicum;
on thin soil over ss rock at edge of
8823. Chiloscyphus pallescens (Ehrh.) Dumort.
On soil over exposed roots at edge of
mixed w/ 8824
8824. Fissidens cristatus Wils. ex Mitt.
On soil over exposed roots at edge of
mixed w/ 8823

- ³ 8825. Thuidium delicatulum (Hedw.) BSG
On soil over exposed roots at edge of
mixed w/ 8823 + 8824
- ³ 8826. Anomodon rugelii (C.M.) Keissl.
On base of Quercus sp., Abundant.
- ³ 8827. Fissidens taxifolius Hedw.
On damp soil over sandstone.
- ⁴ 8828. Bryoandersonia illecebra (Hedw.) Robins.
Abundant on shaded soil ~~of~~ just above
- ³ 8829. Anomodon rostratus (Hedw.) Schimp.
Abundant on soil over ss rock.
- ³ 8830 Hypnum imponens Hedw.
Abundant on
- ⁴ 8831 Amblystegium varium (Hedw.) Lindb.
Abundant on moist rock at stream margin.
- ³ 8832. Anomodon rugelii (C.M.) Keissl.
On wet rock. Abundant.
8833. Mnium cuspidatum Hedw.
Scattered among Fissidens taxifolius, on
soil over rock.

- 2 8834. Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer
 : Scherb.
 At edge of drain draining into
- 1 8835. Pellia epiphylla (L.) Corda
- 1 8836. Atrichum undulatum (Hedw.) P.-Beauv.
 Common on soil along stream.
- 1 8837. Brachythecium oxycladon (Brid.) Jaeg. & Sauerb.
 On base of Quercus sp. mixed w/ 8838.
- 1 8838 Radula obconica Sull.
 on base of Quercus sp. mixed w/ 8837.
- 2 8839. Anomodon rostratus (Hedw.) Schimp.
 Common on base of Quercus sp.
- 8840 Leucolejeunea uncinata (Lindenb.) Evans
 on base of Fagus
8841. Forsstromia trichomitria (Hedw.) Lindb.
 Common on Quercus.
- 2 8842. Mnium affine Bland. ex Funck
 Abundant on moist rock near

3
8843. Pohlia wahlenbergii (Web. & Mohr) Andr.
Abundant on wet soil over rock at edge
of

1
8844. Mnium punctatum Hedw.
Growing over Dumortiera hirsuta on soil over
LS rock below ledge.

✓
January 28, 1989. AL: Colbert Co.; Residence of Jim Lacey field
ca. 1/4 mile SW of Co. Rd. 41; ca. 6 miles S of Hwy 72.
R12W T5S S15 SW4. Steep SS ravine; Beech-Magnolia
at base, Oak-Pine on bluff.

8845. Chamaecyparis thyoides (L.) B.S.P.
In yard.

8
8846. Fontinalis
Attached to rock in ^{upper} stream. Abundant

5
8847. Climacium americanum var. Kindbergii Ren. & Card.
Attached to rock in stream. Abundant

2
8848. Leucolejeunea clypeata (Schwein.) Evans
On SS boulder along stream.
Mixed w/ Frullania squarrosa

1 8849. Frullania squarrosa (Reinw., Blume & Nees) Nees
On sandstone boulder; mixed w/ Leucolejeunea clypeata
along stream.

1 8850. Fissidens taxifolius Hedw.
On verticle ^{wet} SS wall at descent to lower
ledge level. Mixed w/ 8851, 8852, 8853

3 8851. Syrrhopodon texanus Sull.
Abundant on ^{wet} vertical SS wall at descent to lower
ledge level; mixed w/ 8850, 8852, 8853

1 8852. Hookeria acutifolia Hook. & Grev.
Rare on wet vertical SS wall at descent to lower
ledge level; mixed w/ 8850, 8851, 8853

1 8853. Trichomanes petersii A. Gray
Rare on wet vertical SS wall at descent to lower
ledge level; mixed w/ 8852, 8851, 8850.

2 8854. Mnium cuspidatum Hedw.
Common on shaded soil at base of SS bluff.
w/ sporophytes.

2 50 8855. Fissidens adianthoides Hedw.
* Common on shaded rock sprayed by waterfall.

- 1 51
8856. Amblystegium tenax (Hedw.) C. Jens.
mixed w/ Pellia epiphylla; ^{+ 8853} on SS rock at base
of waterfall.
- 2 52
8857. Dumortiera hirsuta (Sw.) Nees
mixed with Amblystegium tenax and 8853 on SS Rock at
base of waterfall
- 1 53
8858. Mnium punctatum Hedw. mixed w/ 8851 & 8852
on SS rock at base of waterfall.
- 1 54
8859. Riccardia chamedryfolia (With.) Grolle
on moist log at stream margin. Mixed w/
Leucolejeunea clypeata.
- 1 55
8860. Leucolejeunea clypeata (Schwein.) Evans.
On beech tree along stream.
- 1 56
8861. Porella pinnata L. on wet dripping SS rock.
- 2 57
8862. Polytrichum ohioense Ren. & Card.
On soil over SS along trail at top of
bluff leading to waterfall. w/ sporophytes.
- 1 58
8863. Radula obconica Sulliv. SS.
Mixed with 8859 - on wet rock at base
of water fall.

3 59

8864. Conocephalum conicum (L.) Lindb.Common on wet ^{ss} rock below waterfall. mixed
w/ 8858.

2 60

8865. Bartramia pomiformis Hedw.Frequent on moist ss rock ledge above
waterfall.

1 61

8866. Lophocolea heterophylla (Schrad.) Dumort.mixed w/ 8862 & 8863; on moist ss ledge
above falls.

2 62

8867. Scapania nemorosa (L.) Dummixed w/ 8861 & 8863; on moist ss ledge above
waterfall.

1 63

8868. Jubula pennsylvanica (Steph.) EvansMixed w/ 8861 & 8862; on moist ss ledge
above waterfall.

2 64

8869. Thuidium delicatulum (Hedw.) BSG

Common on humus along streams.

2 65

8870. Hypnum imponens Hedw.Abundant on soil and over ss boulders along
streams.

2 66

8871. Anomodon attenuatus (Hedw.) Hüb.
Common on ss rocks along stream.

1 67

8872. Calyptogeria fissus (L.) Raddi
On ss rock along stream; mixed w/ 8868

1 68

8873. Scapania nemorosa (L.) Dum.
On ss rock along stream; mixed w/ 8867.

2 69

8874. Hypnum curvifolium Hedw.
On ss rock at edge of stream.

2 70

- 8875 Dicranum scoparium Hedw.
On ^{ss}soil along trail of bluff leading to waterfall. Common.

2 71

- 8876 Bryoandersonia illecebra (Hedw.) Robin.
Common on ^{ss}soil along trail of bluff leading to waterfall.

2 72

- 8877 Odontoschisma prostratum (Sw.) Trev.
Common on moist ss ledge just above waterfall.

2 73

- 8878 Polytrichum ohioense Ren. & Card.
Common on ^{ss}soil along trail leading to waterfall.

- 2 74
8879 Fissidens cristatus Wils. ex Mitt.
Common on shaded sandy soil of rock ledges.
mixed w/ 8875.
- 1 75
8880. Brachythecium acuminatum (Hedw.) Aust.
Mixed w/ 8874 on shaded sandy soil of rock ledges.
- 1 76
8881. Aulacomnium heterostichum (Hedw.) B.S.G.
Common on moist ss ledge around waterfall.
- 2 77
8882. Fontinalis
Attached to rock in lower stream.
- 1 78
8883. Mnium affine var. rugicum (Lour.) B.S.G.
On shaded, moist ss boulder below waterfall.
- 2 79
8884. Leucolejeunea clypeata (Schwein.) Evans
On ss boulder near stream.
- 1 80
8885. Bryoandersonia illecebra (Hedw.) Robin.
On ss boulder near stream.
- 2 81
8886. Tortella humilis (Hedw.) Jenn.
On sandy soil of sloping ss bluff. Moist.

✓
January 29, 1989. Lauderdale Co.; wildwood City Park,
Florence.

- 82
8887. Reboulia hemisphaerica (L.) Raddi
on soil of sandstone ledges.
- 83
8888. Porella pinnata L.
Abundant On ledges of wet sandstone.
- 84
8889. Fissidens grandifrons Brid.
Attached to ^{ss} rocks in spring mouth. Abundant.
- 85
8890. Dumortiera hirsuta (Sw.) Nees
Attached to ss rocks in and around spring
mouth. Abundant.
- 86
8891. Conocephalum conicum (L.) Lindb.
Attached to ss rocks in and around spring.
- 87
8892. Frullania inflata Gott.
On Juniperus virginiana.
8893. Frullania inflata Gott. Attached to exposed root of
Quercus sp., mixed w/ Porella platyphylla,
w/ sporophytes.

2

8894. Leucodon julaceus (Hedw.) Sull.
Common on recently fallen log.

✓

February 2, 1989. Franklin Co.; Off Co. Rd. #8 ca. 3/4
mile west of Hwy. 43. Dismal Branch drainage.
S27°34 T8S R12W. Cool, moist hardwood forest of
Beech, Magnolia and Hemlock.

8895. Trichocolea tomentella (Ehrh.) Dum.
Over roots of beech at edge of stream, mixed w/ 8896, 8897

2

8896. Metzgeria furcata (L.) Dum.
Over roots of beech at edge of stream; mixed w/ 8895
8897

2

8897. Mnium affine var. rugicum (Lour.) B.S.G.
Over roots of beech at edge of stream; mixed w/ 8896, 8895

4

8898. Hypnum imponens Hedw.
Abundant over ss boulders and at base of Hardwoods
over roots.

31

8899. Leucolejeunea clypeata (Schwein.) Evans
Abundant on trunks of Prunus caroliniana ;
mixed w/ 8900.

- 2
8900. Frullania tamarisci subsp. azagrayana (Mont.) Hatt.
Common on trunks of Prunus caroliniana; mixed
w/ Leucolejeunea clypeata.
- 3
8901. Fissidens polypodioides Hedw. On Sandy soil at
Stream bank; abundant.
- 4
8902. Atrichum undulatum var. oerstedianum (C.m.) Crum
Common on soil of stream bank.
w/ sporophytes.
- 4
8903. Hypnum
Common on thin soil over ss boulder.
w/ sporophytes.
- 2
8904 Dicranella heteromalla (Hedw.) Schimp.
On soil over small ss rock at edge
of stream; w/ sporophytes.
- 3
8905. Leucolejeunea clypeata (Schwein.) Evans
Abundant on trunk of Am. Holly.
w/ sexual structures.
- 2
8906. Lophocolea heterophylla (Schrad.) Dumort.
In patches on dead root overhanging
stream; mixed w/ Leucolejeunea clypeata.

- 3
8907. Leucolejeunea uncioba (Lindenb.) Evs.
Common on trunk of Am. Holly.
- 1
8908. Calypogeia peruviana Nees & Mont. Rare, scattered over
8909; on vertical SS just above waterline of stream
- 4
8909. Pellia epiphylla (L.) Corda
Abundant on vertical SS just above water line of
stream; sexual structures present
- 1
8910. Tubula pennsylvanica (Steph.) Evans
Scattered over Pellia epiphylla on vertical SS just
above waterline of stream.
- 1
8911. Tetraxis pellucida Hedw.
Scattered over 8909 on vertical SS just above waterline of
stream.
- 1
8912. Cephalozia connivens (Dicks.) Lindb.
Scattered over 8909 on vertical SS just above
waterline of stream.
- 3
8913. Schwetschkeopsis fabronia (Schwaegr.) Broth.
In dense patch on log.
- 1
8914. Frullania tamarisci subsp. asagrayana (Mont.) Natl. On
base of Rhododendron sp.; mixed w/ 8915, 8916.

1
8915. Lophocolea heterophylla (Schrad.) Dumort.
On base of Rhododendron; mixed w/ 8914, 8916

1
8916. Dicranum montanum Hedw.
On base of Rhododendron; mixed w/ 8915, 8914

1
8917. Radula obconica Sull.
On base of Liquidambar w/ 8818, 8919

1
8918. Fissidens subbasilaris Hedw.
On base of ~~Liquidambar~~ Liriodendron. w/ 8817, 8919

3
8919. Anomodon attenuatus (Hedw.) Hüb.
On base of ~~Liquidambar~~ Liriodendron. w/ 8918, 8917

5
8920. Hypnum
On SS boulder; mixed w/ 8921

3
8921.
On SS boulder; mixed w/ 8920

5
8922. Sphagnum.
On soil along stream.

8923. Tetraxis pellucida Hedw.
Abundant on verticle SS.
w/ sporophytes.

8924. Pallavicinia lyellii (Hook.) Carruth.

On moist ss ledge; mixed w/ 8925

8925. Mnium punctatum Hedw.

On moist soil over ss ledge; mixed w/ 8924.
w/ sporophytes.

8926. Leucolejeunea clypeata (Schwein.) Evans

Abundant on Am. Holly; mixed w/ 8927.

8927. Frullania tamarisci subsp. asagrayana (Mont.) Hatt.

Abundant on Am. Holly; mixed w/ 8926.

8928. Leucolejeunea clypeata (Schwein.) Evans.

Abundant on trunk of Prunus caroliniana.

8929. Leucolejeunea clypeata (Schwein.) Evans.

On base of Rhododendron.

8930. Pallavicinia lyellii (Hook.) Carruth.

On wet soil over ss ledge.

8931. Atrichum angustatum (Brid.) BSG

on thin soil over ss boulder.

mixed w/ Scapania nemorosa + 8933.

8932. Scapania nemorosa (L.) Dum.

On soil over SS boulder, mixed w/ 8931 + 8933

8933. Calypogeia fissca (L.) Radd.

On soil over SS boulder; mixed w/ 8932 + 8931

8934. Bryoandersonia illecebra (Hedw.) Robin.

On base of sweetgum.

8935. Thuidium delicatulum (Hedw.) BSG.

On soil over SS. Abundant.

8936. Leucobryum albidum (Brid.) Lindb.

Abundant on soil and at base of trees.

8937. Fissidens osmundioides Hedw.

On SS ledge at large falls.

8938. Odontoschisma prostratum (Sw.) Trev.

Common attached to SS under ledges.

mixed w/ Pallavicini lyellii.

8939. Hookeria acutifolia Hook. & Grev.

Uncommon, attached to SS under moist ledges.

8940. Diplophyllum apiculatum (Evans) Steph.
Frequent vertical SS.
- 2
8941. Bazzania trilobata (L.) Gray
Common on SS boulders.
- 1
8942. Leucolejeunea clypeata (Schwein.) Evans.
Common on Tulip Poplar Trunk.
- 21
8943. Cephalozia lunulifolia (Dumort.) Dumort.
Scattered among Scapania nemorosa.
- 1
8944. Riccardia
On moist, shaded vertical SS.
- 1
8945. Fissidens lushii (Card. & Thér.) Card. & Thér.
On soil in crevice of vertical SS.
- 1
8946. Isopterygium distichaceum (Mitt.) Jaeg. & Sauerb.
On soil in crevice of vertical SS.
- 3
8947. Grimmia pilifera P.-Beauv.
Abundant on exposed SS rock.
- 3
8948. Syrrophodon texanus Sull.
On moist vertical SS near falls.

1
8949. Frullania aboracensis Lehm.
Over SS near falls, mixed with 8950.

1
8950. Leucolejeunea clypeata (Schwein.) Evans
Over SS near falls; mixed with 8949.

8951. Selaginella rupestris (L.) Spring
Scattered on exposed sandstone.

4
8952. Nowellia curvifolia (Dicks.) Mitt.
Common on decorticated log; mixed w/ 8953.

1
8953. Cephalozia connivens (Dicks.) Lindb
On decorticated log; mixed w/ 8952.

1
8954. Odontoschisma prostratum (Sw.) Trev.
On decorticated log, mixed w/ 8953, 8952
w/ marginal gemmae

3
8955. Fissidens asplenioides Hedw.
On soil of stream bank.

3
8956. Tortella humilis (Hedw.) Jenn.
On soil over SS.
w/ sporophytes

- 1
8957. Cephalozia lunulifolia (Dum.) Dum.
Scattered over Pellia epiphylla.
On cool, moist vertical ss.

4.
8958. Tetraphis pellucida Hedw.
On rotting stump.

- 2
8959 Hypnum

- 2
8960. Frullania aboracensis Lehm.
On exposed ss near falls.

- 2
8961.
On thin soil of exposed, open ss rock.

- 2
8962. Polytrichum commune var. perigoniale (Mx.) Hampe
On soil at edge of exposed ss rock.

✓
February 27, 1989. AL: Cullman Co.; Hurricane Creek Park.

w/ Linda, Caleb & Zachary

- 1
8963. Leucolejeunea clypeata (Schwein.) Evans
On Quercus spp. along high trail.
mixed w/ 8964.

8964. Frullania squarrosa (Reinw., Blume & Nees) Nees.
On Quercus sp. w/ 8963. along high trail.
8965. Metzgeria furcata (L.) Dum.
On tree base; mixed w/ 8966.
8966. Leucolejeunea clypeata (Schwein.) Evans
On tree trunk; mixed w/ 8965.
8967. Leucolejeunea clypeata (Schwein.) Evans
mixed w/ 8968; on soil of SS ledge.
8968. Pallavicinia lyellii (Hook.) Carruth.
mixed w/ 8967; abundant on soil of SS ledge.
8969. Calypogeia muelleriana (Schiffn.) K. müll.
mixed w/ Scapania nemorosa; on soil of
steep south-facing slope.
8970. Scapania nemorosa (L.) Dum.
mixed w/ 8969.; on soil of steep south-facing
slope
8971. Reboulia hemisphaerica (L.) Raddi.
On soil at base of SS rock on steep
South-facing slope.

- 3
8972. Conocephalum conicum (L.) Lindb.
On soil of wet, vertical SS near falls of high trail; mixed w/ 8973 + 8974.
- 1
8973. Fissidens taxifolius Hedw.
On soil of wet, vertical SS near falls of high trail; mixed w/ 8972 + 8974.
- 1
8974. Isopterygium distichaceum (Mitt.) Jaeg. & Sauerb.
mixed w/ 8972 & 8973; on soil of wet, vertical SS near falls of high trail.
- 6
8975. Eurhynchium riparioides (Hedw.) Rich.
Attached to SS in spray of falls.
mixed w/ 8976 ~~8977~~
- 2
8976. Fissidens pusillus (Wils.) Mild.
Mixed w/ 8975; in spray of falls
- 5
8977. Dumortiera hirsuta (Sw.) Nees
Attached to SS in spray of falls.
- 2
8978. Odontoschisma prostratum (Sw.) Trev.
On vertical SS of underledge.
mixed w/ 8979.
- 3
8979. Syrrophodon texanus Sull.
On vertical SS of underledge.
mixed w/ 8978

3
8980. Tetraphis pellucida Hedw.
On soil over ss.

1
8981. Aulacomnium heterostichum (Hedw.) BSG
On soil of eroded bank near rock arch; mixed
w/ 8982.

8982. Fissidens taxifolius Hedw.
On soil of eroded bank near rock arch; mixed
w/ 8981.

2
8983. Plagiochila asplenoides subsp. porelloides (Torrey ex
Nees) Schuster
On wet vertical ss.

1
8984 Radula tenax Lindb.
On soil over moist ss ledge; mixed w/ 8985.

1
8985. Pellavicia lyellii (Hook.) Carruth.
On soil over moist ss ledge; mixed w/ 8984.

4
8986. Leucolejeunea clypeata (Schwein.) Evans
On thin soil over ss.

1
8987. Lejeunea latevirens Nees & Mont.
On trunk of Linodendron sp.

6

8988. Scapania nemorosa (L.) Dumort.

Abundant over soil along Hurricane Creek.

8-3

8989. Sphagnum

On soil and ss near falls of high trail.

1

8990. Leucolejeunea unciloba (Lindenb.) Evans.On trunk of Carpinus caroliniana near Hurricane Creek.

3

8991. DiplophyllumOn soil under sandstone ledge - mixed w/ Leucolejeunea clypeata and Odontoschisma prostratum.8992. Calypogeia sullivanii Aust.

mixed w/ 8991, on soil under ss ledge.

March 4, 1989. AL: Fayette Co.; Along Moss Creek at County Hwy 87. Disturbed creek bank. NE4, S29, R12W, T13S.

w/ D. Jackson.

4 ✓

8993. Leucolejeunea clypeata (Schwein.) Evans.On Magnolia virginiana; abundant.

²
8994. Bryoandersonia illerebra (Hedw.) Robins.

On base of Magnolia virginiana.

³
8995. Calypogeia sullivanii: Aust.

On soil at base of large recently cut tree.

⁴
8996. Frullania inflata Gott.

Abundant on dead root overhang stream; w/ sporophytes.

³
8997. Lophocolea heterophylla (Schrad.) Dum.

On rotting wood; abundant

⁵
8998. Atrichum angustatum (Brid.) BSG.

Abundant on soil at base of recently cut tree.

⁴
8999. Pogonatum pensilvanicum (Hedw.) P.-Beauv.

Abundant on soil at base of recently cut tree.

⁴
9000. Pellia epiphylla (L.) Corda

On soil of recessed bank below recently cut tree.

Abundant; w/ sporophytes.

✓
 March 4, 1989. AL: Walker Co. Along intermittent stream ca. 3/4 mile
 NW of junct. ^{AL & Co. Rd. 30} on SW side of paved road (Co. Rd. 30)
 NW 1/4 S6 R10W T13S. Highly disturbed secondary growth
 woods.

w/ Dianna Jackson

6

9001. Sphagnum

Abundant along stream.

2

9002. Thelia hirtella (Hedw.) Sull.
 on rotting wood.

3

9003. Fissidens bushii (Card. & Thér) Card. & Thér.
 on soil over wood.

2

9004. Campyllum chrysophyllum (Brid.) J. Lange
 on rotten wood.

1

9005. Frullania eboracensis Lehm.
 On branch of Quercus sp.

4

9006. Frullania squarrosa (Reinw., Blume & Nees) Nees
 On loose bark of stump.

2

9007. Platygyrium repens (Brid.) BSG.
 On tree stump.

34

9008. Solenostoma gracillimum (Smith) Schuster

Abundant on soil along stream.

4

9009. Scapania nemorosa (L.) Dum.

Abundant on soil along stream.

4

9010. Tortella humilis (Hedw.) Jenn.

On base of Quercus alba; abundant; w/ sporophytes.

9011. Thelia hirtella (Hedw.) Sull.

On base of Quercus alba; abundant.

2

9012. Leucolejeunea clypeata (Schwein.) Evans

Abundant on Quercus alba; w/ sporophytes

1

9013. Frullania squarrosa (Reinw., Blume, & Nees) Nees

On trunk of Quercus alba; w/ sporophytes

1

9014. Frullania squarrosa (Reinw., Blume, & Nees) Nees

On rotten, fallen branch.

✓
 March 4, 1989. AL: Walker Co.; ~ 2 1/10 mile NW of AL 13 on SW
 side of Co. Rd. 30. Tributary of Mallards Creek. Rocky
 sandstone outcrops w/ highly disturbed surrounding
 vegetation. SE4 S6 R10W T13S.
 w/ L.D. Jackson

1
 9015 Pallavicinia lyellii (Hook.) Carroth.

On wet ss at base of bluff.

3
 9016. Porrella pinnata L.

Frequent on ss ledges and tree roots.

3
 9017. Metzgeria furcata (L.) Dum.

On moist ss ledge.

1
 9018 Frullania squarrosa (Reinw., Blume & Nees) Nees.

On moist ss ledge.

2
 9019. Aulacomnium heterostichum (Hedw.) BSG.

On base of Magnolia sp.

1
 9020. Hejeunea flava (Sw.) Nees, on base of Magnolia sp.

2
 9021. Pogonatum pensilvanicum (Hedw.) P.-Beauv.

On bare disturbed soil near creek.

¹ 9022. Leucolejeunea clypeata (Schwein.) Evans
On base of Magnolia sp.

¹ 9023. Lejeunea cladogyna Evs.
On ss below overhang.

⁴ 9024 Porella pinnata L. ; on submerged root.

³ 9025. Atrichum angustatum (Brid.) BSG.
On ~~open~~ soil of field.

³ 9026 Scapania nemorosa (L.) Dum.
on trunk of Rhododendron sp.; mixed w/ 9027.

¹ 9027 Odontoschisma prostratum (Sw.) Trev.
on trunk of Rhododendron sp.; mixed w/ 9026.

³ 9028. Sphagnum
On soil along creek.

⁵ 9029. Marsupella emarginata (Ehrh.) Dumort.
On dripping ss ledge; mixed w/ 9030

² 9030 Scapania nemorosa (L.) Dum.
on dripping ss ledge; mixed w/ 9029

9031. Odontoschisma prostratum (Sw.) Trev.
On sandy soil along stream.

9032 Cephaloziella hampeana (Nees) Schiffn.
On sandy soil along stream bank; mixed w/ 9035, 9033, 9034

9033 Blepharostoma trichophyllum (L.) Dum.
On sandy soil along stream mixed w/ 9035, 9033, 9034

9034. Cephalozia lunulifolia (Dum.) Dum.
mixed w/ 9035, 9032, 9033
On sandy soil along stream.

9035 Cephaloziella hyalina Douin.
On sandy soil along stream; mixed w/ 9033, 9032, 9034.

9036. Calypogeia fissia (L.) Raddi
On soil in ss crevice below overhang.

9037 Fissidens asplenoides Hedw.
On moist soil of ss crevice below overhang.

9038. Calypogeia fissia (L.) Raddi
On soil along stream.

9039. Trichomanes boschianum Sturm
on moist sandstone below overhang.

5 9040. Pellia epiphylla (L.) Corda on moist ss ledge below overhang.

9041. Fissidens cristatus Wils. ex Mitt.
On moist ss rock boulder near stream; mixed w/ 9042

2 9042 Rectolejeunea maxonii Evs.
On moist ss rock boulder near stream; mixed w/ 9041

2 ⁹⁰⁴³ Leucolejeunea clypeata (Schwein.) Evans; On bark of dead tree.

2 ⁹⁰⁴⁴ Cololejeunea biddlecomiae (Aust.) Evs.
On moist ss rock heavily shaded by leaves, near stream.

2 9045 Leucolejeunea clypeata (Schwein.) Evans
On back of Rhododendron sp.

1 ⁹⁰⁴⁶ Scapania nemorosa (L.) Dum.
On ^{ss} soil along stream

9047. Frullania squarrosa (Reinw., Blume & Nees) Nees.
On bark of Rhododendron sp.
mixed w/ Leucolejeunea clypeata.

✓
March 4, 1989. AL: Winston Co; ca. 2.1 mile N of jct. AL 278 and
AL 13 (S). On east side of AL 13. Bluffs along tributary of
Splunge Creek. § SE455 R10W T11S. Beech-Magnolia ravine.
w/ L.D. Jackson.

5
9048. Hypnum. To Frank

4
9049. mnium affine Bland. ex Funck
On soil over ss boulder; w/ sporophytes & male heads.

4
9050. Pellia epiphylla (L.) Rorda
On wet sandy soil over ss below overhang.

1
9051. Diplophyllum apiculatum (Evans) Steph.
On wet sandy soil over nearly vertical rock; mixed w/ 9052 + 9053.

1
9052. Scapania nemorosa (L.) Dum.
On wet sandy soil over nearly vertical rock; mixed w/ 9051 + 9053.

1
9053. Rectolejeunea maxonii Evers.
On wet sandy soil over nearly vertical rock; mixed w/ 9052 + 9051

3
9054 Conocephalum conicum (L.) Lindb.
On sandy soil over ss below overhang.

- ³ 9055 Odontoschisma prostratum (Sw.) Trev.
On thin sandy soil over moist nearly vertical ss.
- ⁴ 9056 Leucolejeunea clypeata (Schwein.) Evs.
On bark of Liquidambar styraciflua.
- ¹ 9057. Cololejeunea biddlecomiae (Aust.) Evs.
On bark of dead Fagus grandifolia just below bluffs.
- ³ 9058 Aulacomnium heterostichum (Hedw.) BSG
On soil over ss outcrop.
- ¹ 9059. Leucolejeunea clypeata (Schwein.) Evs.
On thin soil over ^{vertical} ss.
- ¹ 9060. Fissidens subbasilaris Hedw.
On soil of vertical ss; mixed w/ 9059 & 9061.
- ¹ 9061. Fissidens cristatus Wils. ex Mitt.
On soil of vertical ss; mixed w/ 9059 & 9060
- ⁵ 9062. Tortella humilis (Hedw.) Jenn.
On wet soil of vertical ss.
- ³ 9063. Aulacomnium heterostichum (Hedw.) BSG
On moist sandy soil below overhang.

- '9064. Leucolejeunea clypeata (Schwein.) Evans
On trunk of Fagus grandifolia.
- ⁴9065. Domortiera hirsuta (Sw.) Nees
On wet soil over ss below overhang.
- ³⁻²9066. Bartramia pomiformis Hedw.
on ss rock; w/ sporophytes (1 pk.)
- '9067. Solenostoma hyalinum (Lyeil) M. H.
On small sandstone rocks below overhang.
- '9068 Cephalogiella hyalina Douin.
On sandstone rocks below overhang.
- ⁴9069 Fissidens To Frank on wet soil of nearly
vertical sandstone constantly sprayed by waterfall.
- ⁴9070
Schwetschkeopsis fabronia (Schwaegr.) Broth.
On moist vertical ss.
- ²9071. Send to marine
On moist soil in crevice of ss below overhang.
9072. To Frank

- ✓
9073 Diplophyllum apiculatum (Evans) Steph.
In depression of vertical ss.

✓
March 4, 1989. AL: Winston Co., Natural Bridge Park, ca. 1.5 miles ^{west} of junct. AL 278 (4) & AL 5 (13 + 4). SW 1/4 S17 R10W T11S.
Highly dissected sandstone ravine - Bigleaf Magnolia, Beech - oak Forest. New River Drainage.
w/ L.D. Jackson.

- 4
9074 Tetraphis pellucida Hedw.
On sandstone boulder; w/ sporophytes

- 4
9075 Bartramia pomiformis Hedw.
On soil at base of beech near arch; w/ sporophytes.

- 5
9076. Aulacomnium heterostichum (Hedw.) BSG.
On soil at base of beech near arch; w/ sporophytes

- 4
9077. Mnium affine Bland ex Funck.
Abundant on ss boulder.

- 6
9078 Dumortiera hirsuta (Sw.) Nees.
On wet ss below overhang.

- ³ 9079. Conocephalum conicum (L.) Lindb.
On wet ss below overhang; mixed w/ 9080
- ¹ 9080 Pellia epiphylla (L.) Corda
On wet ss below overhang; mixed w/ 9079
- ⁵ 9081. Polypodium ohioense Ren. & Card.
On soil over ss boulder; w/ sporophytes.
- ¹ 9082. Thuidium delicatulum (Hedw.) BSG.
On soil over ss boulder.
- ² 9083. Lophocolea heterophylla (Schrad.) Dum.
On base of Pinus sp.; mixed w/ 9084 to 9085
- ² 9084. Cephalozia hyalina Douin.
On base of Pinus sp.; mixed w/ 9083 + 9085
- ² 9085 Jamesoniella autumnalis (D.C.) Steph.
On base of Pinus sp.; mixed w/ 9083 + 9084
- ³ 9086. Leucolejeunea clypeata (Schwein.) Evans
On trunk of Magnolia sp.
- ³ 9087. Tubula pennsylvanica (Steph.) Evans
On wet ss rock of coves.

9088 Calypogeia fissa (L.) Radd.

On vertical ss below overhang at cove spring.

mixed w/ 9089

9089. Microlepidozia sylvatica (Evans) Joerg.

On vertical ss below overhang at cove spring; mixed w/ 9088

9090 Telaranea nematodes (G. ex Aust.) Howe

On very wet ss below overhang at cove spring;
mixed w/ calypogeia fissa.

9091 Cephalozia bicuspidata (L.) Dumort.

On very wet ss below overhang at cove spring;
mixed w/ Microlepidozia sylvatica.

9092 Diplophyllum obtusatum (Schust.) Schust.

On very wet ss below overhang at cove spring.

9093. Thuidium delicatulum (Hedw.) BSG

On wet rock near cove spring; w/ sporophytes.

9094. Leucolejeunea clypeata (Sahwein.) Evans

On ss of arch.

9095 Frullania

On shale at base of ss of arch, very wet - dripping.

underleaves wider than stem; lobules explanate
cell walls nodulose. mixed w/ 9096

- ² 9096. Domortiera hirsuta (Sw.) Nees
 On wet dripping shale below ss of arch; mixed w/ 9095
- ² 9097 Lejeunea
 On moist ss of arch.
- ² 9098. Odontoschisma prostratum (Sw.) Trev.
 On moist ss ledge; mixed w/ 9099
- ¹ 9099 Scapania nemorosa (L.) Dum.
 On moist ss ledge; mixed w/ 9098
- ¹ 9100. Fissidens cristatus Wils. ex Mitt.
 On ss boulder over stream.
- ¹ 9101. Jabula pennsylvanica (Steph.) Evans
 On ^{wet} ss boulder at end of trail.
- ¹ 9102. Metzgeria furcata (L.) Dum.
 On ^{exposed} root of Tsuga canadensis.
- ¹ 9103 Atrichum undulatum (Hedw.) P.-Beauv.
 On ~~a~~ wet shaded soil at spring cove.
- ² 9104. Scapania nemorosa (L.) Dum.
 On thin soil over ss near arch.

9105. Jubula pennsylvanica (Steph.) Evans

On wet ss below overhang at arch.

9106. Syrrhopodon

9107. Frullania squarrosa (Reinw., Blume, & Nees) Nees

On trunk of Tulip Poplar; mixed w/ 9108

9108. Leucolejeunea clypeata (Schwein.) Evans

On trunk of Tulip poplar; mixed w/ 9107.

9109. Tortella humilis (Hedw.) Jenn.

On vertical ss below overhang.

9110 Domortiera hirsuta (Sw.) Nees

On wet ss below overhang at cave.

9111 Leucolejeunea clypeata (Schwein.) Evans

On roots of beech tree.

9112. Calypogeia fissq (L.) Raddi

On moist ss ledge below overhang at spring cave.

9113. Leucolejeunea clypeata (Schwein.) Evans

On bark of stump at trail end.

- ¹ 9114. Fissidens asplenioides Hedw.
On wet, shaded ss ledge at spring cove; mixed w/ 9115, 9116, 9117
- ¹ 9115. Pellia epiphylla (L.) Corda
On wet, shaded ss ledge at spring cove; mixed w/ 9114, 9116, 9117
- ¹ 9116 Calypogeia fissa (L.) Raddi
On wet ss ledge at spring cove; 9117, 9115, 9114
- ¹ 9117 Pallavicinia lepeletii (Hook.) Carruth.
On wet ss ledge at spring cove; mixed w/ 9116, 9115 + 9114
- ² 9118. Cephalozia connivens (Dicks.) Lindb.
On smooth bark of stump; mixed w/ 9119
- ² 9119. Jamesoniella autumnalis (D.C.) Steph.
On smooth bark of stump; mixed w/ 9118.
- ³ 9120 Fissidens taxifolius Hedw.
On soil in corners of steps leading to arch.
- ⁷ 9121. Jubula pennsylvanica (Steph.) Evans.
On wet ss of cove spring area.
- ² 9122. Jubula pennsylvanica (Steph.) Evans
On wet shale at base of ss.

- ² 9123. Leucolejeunea uncioloba (Lindenb.) Evans
on trunk of Ostrya virginiana
- ³ 9124. Rectolejeunea maxoni: Evans
on bark of standing dead Acer.
- ⁴ 9125. Metzgeria uncigera Evans
On trunk of Fagus grandifolia; mixed w/ Leucolejeunea clypeata.
- ⁵ 9126. Cephalozia lunulifolia (Dum.) Dum.
On moist ss below overhang of arch.
- ⁴ 9127 Leucolejeunea clypeata (Schwein.) Evans
On moist ss ledge of arch.
- ¹ 9128. Bazzania trilobata (L.) S. Gray
On ss boulder on east side of arch.
- ⁵ 9129. Plagiochila asplenioides subsp. porelloides (Torrey ex Nees)
Schust.
On nearly vertical ss boulder below falls at end of trail.
- ⁴ 9130. Odontoschisma prostratum (Sw.) Trev.
Abundant on moist ss wall.

10

9131. Trichocolea tomentella (Ehrh.) Dum.Very abundant on soil below overhang ^{below} ~~above~~ falls at trail end.

5

9132. Fontinalis

5

9133. Amblystegium noterophilum (Sull. & Lesq. ex Sull.) Holz.

Attached to shale; in and around waterfall.

8

9134. Jubula pennsylvanica (Steph.) Evans

Attached to SS in spray of falls of coves.

1

9135. Frullania squarrosa (Reinw., Blume, & Nees) NeesOn bark at base of Fagus grandifolia.

✓
 March 11, 1989. AL: Franklin Co., Off Co. Rd. #8 ca. 3/4 mile
 west of hwy 43. Dismal Branch Drainage. S27 to 34 T8S
 R12W. Cool moist hardwood forest of beech, magnolia and hemlock.
 w/ Timme Family

1

9136. Calypogeia fissa (L.) Raddi

On sandy soil over SS rock.

5

9137. Frullania squarrosa (Reinw., Blume, & Nees) NeesOn bark of dead Tsuga

¹9138. Metzgeria furcata (L.) Dum.

On moist shaded vertical SS; mixed w/ 9139.

¹9139. Bazzania denudata (Torrey) Trev.

On moist shaded vertical SS; mixed w/ 9138.

¹9140. Cephalozia connivens (Dicks.) Lindb.

On well rotted log; mixed w/ 9141 + 9142.

¹9141 Cephalozia catenulata (Hüb.) Lindb.

On well rotted log; mixed w/ 9140 + 9142

¹9142 Nowellia curvifolia (Dicks.) Mitt.

On well rotted log; mixed w/ 9140 + 9141.

¹9143 Radula tenax Lindb.

On base of sweetgum.

⁵9144. Riccardia

On moist vertical SS.

³9145 Lejeunea flava (Sw.) Nees

On root running along vertical SS; moist + shaded.
mixed w/ Syrrophodon texanus.

59146. Hypnum

9147 Lycopodium lucidulum Michx.

Growing on soil over SS of nearly vertical rock.

March 18, 1989. AL: Winston Co. Natural Bridge Park, ca. 1.5 m
west of junct. AL 278(4) & AL: 5(13 + 4). SW $\frac{1}{4}$ S17 R10W
T11S. Highly dissected SS ravine.
Bigleaf Magnolia, Beech, Oak, Maple, Hemlock & Pine

9148.

9149.

9150. Cardamine

April 15, 1989. AL:

Natural Bridge

¹ 9151.

In floodplain.

¹ 9152 Podophyllum peltatum
In floodplain.

² 9153.

On northfacing rocky slope.

¹ 9154. Careopsis
In floodplain.

² 9155. Silene virginica
On soil over SS boulder

² 9156. Phlox
On rocky disturbed soil at entrance to short,
west trail.

² 9157.

In floodplain.

9158.

On soil over ss boulder.

9159. Cynoglossum

In floodplain

9160. Hedyotis

On disturbed rocky soil.

9161. Pedicularis

On soil in floodplain.

9162. Orchis spectabilis

In floodplain.

9163. Euonymus

In floodplain.

9164.

On soil of rock north facing slope.

9165. Cornus Florida

Floodplain & bluffs

9166. Xanthorrhiza

On soil of rocky slopes and along stream.

²
9167. Ranunculus
Floodplain.

¹
9168. Iris
Floodplain.

¹
9169. Hepatica
On rocky soil of northfacing slope.

²
9170. Viola
on Rocky soil of ledges.

¹
9171. Tiarella
On rocky soil of northfacing slope.

¹
9172. Medicago
On soil of floodplain.

¹
9173.
On rocky soil of n-facing slope.

¹
9174. Meloda
On rocky, shaded soil of n-facing slope.

²
9175.
On moist^{vert.} ss. & below overhangs.

9176. Ilex
Floodplain.

April 15, 1989. AL: Marion Co., Northfork Creek at hwy 43 bridge.

9177. Viola pedata
On rocky soil at margin of woods.

9178. Tradescantia
On thin soil over ^{exposed} sandstone - glade

9179. Hedyotis
On thin soil over exposed ss - glade.

9180. Gels
Over shrubs on exposed ss - glade.

9181. Valarinella
On soil along hwy 43.

9182.
On soil along hwy 43.

¹
9183. Vicia
On soil along hwy 43.

²
9184.
On soil of verticle ss along stream.

³
9185 Acer
On soil over expose ss - glade.

³
9186.
On soil over exposed ss - glade.

³
9187
On soil at edge of ss glade.

April 15, 1988. AL.
Dismals.

¹
9188.
On soil of ss boulder.

¹
9189. Xanthorhiza
On soil along stream.

2
9190.

On rocky wet soil at base of SS bluff.

9191.

April 26, 1989. AL: Lauderdale Co., UNA campus. Steep ^{South facing} bank
at Floyd Science Bldg.

9192.

✓ April 28, 1989. AL: Montgomery Co., along Bypass 82 ~ 1 mile S of Bus. 82
Disturbed roadside, mud flats and swamp area.

w/ Frank Bowers

S19 R20ET14N

9193. Archidium alternifolium (Hedw.) Schimp.

on open soil along roadside at edge of Pine woods

2
9194. Pleuridium

on open dry soil along roadside at edge of pine woods.

3
9195. Campylopus surinamensis C.M.

On open dry soil along roadside. (sandy)

9196. Frullania inflata Gott.

On bark of Salix sp. at edge of swamp.

9197. Physcomitrium puriforme (Hedw.) Hampe

On moist disturbed soil at edge of swamp.

9198. Riccia sullivantii Aust.

On soil periodically flooded, soil organic, dark.

9199. Berchemia scandens (Hill) K. Koch.

In shrubs along roadside.

9200. Wisteria sinensis (Sims) Sweet

In shrubs & trees along roadside.

9201. Briza minor L.

On soil along roadside.

9202. Sherardia arvensis L.

Along roadside

9203. Dicerandra odoratissima Harper

In ditch along roadside.

9204. Gnaphalium purpureum L.

In dry roadside at edge of pinewoods.

³ 9205. Rumex verticillatus L.

In water at edge of swamp and ditch.

² 9206. Frullania inflata Gott.

On trunk of cypress at edge of swamp.

² 9207. Frullania inflata Gott.

On bark of Salix at edge of Swamp.

April 28, 1989. AL: Dale Co., ^{mile} 2 NW of Choctawhatchee River on east side
of AL 231. S.32 T5N R25E.

w/ Frank Bowers.

⁵ 9208. Phlox drummondii Hooker

Open sandy soil of roadside.

¹ 9209. Linaria vulgaris Hill

color varieties - open sandy soil of roadside.

¹ 9210. Centaurea cyanus L.

Open sandy soil of roadside.

² 9211. Lachnocaulon anceps (Walt.) Morong

In wet sandy ditch along roadside.

² 9212. Polygala nana (Michx.) DC.

On sandy soil at edge of woods and roadside.

¹ 9213. Polygala lutea L.

On sandy soil at edge of woods and roadside.

² 9214. Sisyrinchium atlanticum Bickn.

On sandy soil along roadside.

³ 9215. Specularia perfoliata (L.) A. DC.

On soil of roadside ditch.

² 9216. Trifolium incarnatum L.

Along roadside.

⁴ 9217. Vaccinium arboreum Marshall

At edge of pine woods along roadside.

² 9218.

On shaded soil along roadside.

² 9219. Sphagnum

In wet ditch of roadside.

² 9220. Ditrichum pallidum (Hedw.) Hampe

On soil of roadside.

¹⁰
9221. Sphagnum

On wet soil in ditch.

²
9222. Sphagnum

On wet soil in ditch.

April 28, 1989. AL: Dale Co., "Liverwort Gorge" Limestone-Shale gorge
 X leading into Choctawhatchee River. S32 R25E T4N.
 ca. 1.3 miles SE of hwy 18; ca. 1 mile NW of hwy 14 off
 AL 231.
 w/ F. Bowers.

¹
9223. Adiantum pedatum L.
 On vertical walls of gorge.

²
9224. Tillandsia usneoides L.
 On oaks at top of gorge.

²
9225. Lupinus perennis L.
 On soil (sandy) in dry open woods.

²
9226. Cnidioscolus stimulosus (Michx.) Engelm. & Gray
 On sandy soil in dry open woods.

1
9227. Verbena tenuisecta Briquet.
On sandy soil of dry open woods.

2
9228. Ilex amelanchier M.A. Curtis
On soil over rock of gorge walls.

1
9229. Itea virginica L.
Along intermittent stream of gorge.

3
9230. Kalmia latifolia L.
On slopes of gorge.

4
9231. Radula obconica Sull.
At base of dead Pinus sp.

1
9231a. Lejeunea flava (Sw.) Nees

4
9232. Metzgeria myriopoda Lindb.
At base of dead Pinus sp.

6
9233. Trichocolea tomentella (Ehrh.) Dum.
On soil over rock of gorge.

10
9234. Anthoceros carolinianus Michx.
On walls of gorge

1
9235. Eucladium verticillatum (Brid.) BSG.
On wet limestone walls of gorge.

- ¹⁰
9236. Riccardia multifida (L.) S. Gray
On soil of limestone walls of gorge.
- ³
9237. Frullania squarrosa (Reinw., Blume & Nees) Nees
On fallen ulmus at top of gorge.
- ²
9238. Leucolejeunea clypeata (Schwein.) Evs.
On bark of Magnolia grandiflora.
- ⁴
9239. Leucolejeunea clypeata
On bark of Vaccinium arboreum.
- ¹
9239a. Lejeunea flava (Sw.) Nees ↗
- ⁵
9240. Lophocolea bidentata (L.) Dum.
On soil of gorge wall. ↗
- ¹
9240a. Lejeunea calcicola Schust. ↗
- ⁵
9241. Ctenidium molloscum (Hedw.) Mitt.
On soil of overhangs.
- ³
9242. Philonotis longiseta (Mx.) Britt.
On dripping wet nearly vertical limestone.
- ⁴
9243. Pellia epiphylla (L.) Corda
On soil over limestone.

⁶
9244. Riccardia multifida (L.) S. Gray
On soil over limestone of nearly vertical wall.

²
9245. Marchantia domingensis Lehm. & Lindenb.
On rock in stream.

³
9246. Lejeunea laetevirens to B. Thiers
On base of Magnolia grandiflora.

⁴
9247. Lejeunea
On branch of Magnolia grandiflora overhanging gorge.

⁵
9248. Calypogeia fissa (L.) Raddi
On soil over limestone of gorge walls.

¹
9249. Riccardia
On soil at base of needle palm.

¹
9250.
On soil at base of needle palm.

¹
9251. Fissidens
On soil at base of needle palm.

¹
9252. Calypogeia
On soil at base of needle palm.

³
9253. Lophocolea bidentata (L.) Dum.
on soil over limestone.

⁵
9254. Conocephalum conicum (L.) Und.
On soil at base of gorge walls.

¹⁰
9255. Dumortiera hirsuta (Sw.) Nees
On soil at base of gorge walls. w/ sporophytes

¹
9256. Lejeunea cladogyna Evans
On bark of Magnolia sp.

April 28, 1989. AL: Houston Co., Floodplain woods of of Big
X Creek ca 1.5 miles south of Hwy 109 at State Hwy 104
Bridge. ~~226~~ R26 E TIN 58.
w/ F. Bowers.

¹
9257. Lygodium japonicum (Thunberg) Swartz
In moist woods.

¹
9258. Onoclea sensibilis L.
In moist woods near drainage ditch.

¹
9259. Fissidens bryoides Hedw.
On mud of stream bank.

- ¹ 9260. Cheilolejeunea rigidula (Mont.) Schust.
On Magnolia grandiflora in woods.
- ² 9260a. Metzgeria furcata (L.) Dum.
- ¹ 9261. Porella pinnata L.
on root in low area of floodplain.
- ¹ 9262. Cryphaea nervosa (Drumm.) C.M.
On trunk of Chingui pin Oak.
- ¹ 9263. Frullania obcordata (Lehm. & Lindenb.) Lehm. & Lindenb.
On bark of Quercus sp.
- ¹ 9264. Platygyrium repens (Brid.) BSG.
On log.
9265. Leskea polycarpa Hedw.
On root of Magnolia sp.
- ³ 9266. Mnium cuspidatum Hedw.
On soil over roots of Beech.
- ³ 9267. Climacium americanum Brid.
On moist soil.
- ¹ 9268. Hypnum lindbergi Mitt.
On decaying log

⁴ 9269. Fissidens fontanus (B.-Pyl.) Steud.

on roots in stream.

² 9269a. Porella pinnata L. ↗

³ 9270. Cheilolejeunea rigidula (Nees & Mont.) Schust.

On Magnolia grandiflora.

² 9271. Calypogeia fissa (L.) Radd:

On soil in low woods.

² 9272.

On soil at edge of drainage ditch.

³ 9273. Funaria serrata Brid.

on soil near drainage ditch.

⁸ 9274. Lejeunea cladogyna Evs.

On trunk of Magnolia grandiflora.

¹ 9274a. Metzgeria furcata (L.) Dum. ↗

³ 9275. Leucolejeunea unciloba (Lindenb.) Evs.

On log.

¹ 9275a. Lejeunea cladogyna Evs. ↖

¹ 9276. Haplocladium microphyllum (Hedw.) Brith.

On log

³ 9277. Porella pinnata L.

on roots in stream.

- ³ 9278. Fossombronia braziliensis Steph. / 9278b.
 → on soil near drainage ditch. / Cephaloziella obliqua Douin
 9278a. Scapania nemorosa (L.) Dum. ↑

April 28, 1989. AL. Houston Co. ca. 1/4 mile west of junct. 109
 along Co. #4. S30 T1N R12W. Roadside
 ditch.
 w/ F. Bowers

- ¹ 9279. ✓ Coreopsis lanceolata L.
 on soil of open roadside.

- ³ 9280. ✓ Wahlenbergia marginata (Thunb.) DC.
 on soil of open roadside.

- ² 9281. ✓ Scutellaria integrifolia L.
 on soil of roadside ditch.

- ¹ 9282. ✓ Agastache urticifolia (Benth.) Kuntze Lamiales
 on soil at edge of drainage area.

- ¹ 9283. ✓ Polygala nana (Michx.) DC.
 on open soil of roadside.

- ¹ 9284. ✓ Verbena tenuisecta Brig.
 on soil of open roadside.

✓
 9285. Gnaphalium purpureum L.
 On soil at edge of woods & ditch.

✓
 9286. Vaccinium arboreum Marshall
 At edge of pine wood and roadside ditch.

April 28, 1989. AL. Coffee Co., Old field at Mill Creek Bridge on
 Co. Rd. # 189. ca. 4.5 miles South of hwy. 166. 525 TSN R19
 w/F. Bowers.

✓
 9287. Polygala grandiflora Walt.
 Edge of woods.

✓
 9288. Leucobryum albidum (Brid.) Lindb.
 On shaded roadside cut.

✓
 9289. Atrichum angustatum (Brid.) BSG
 On shaded roadside cut.

✓
 9290. Ditrichum pallidum (Hedw.) Hampe
 On dry soil of roadside.

✓
 9291. Bruchia flexuosa (Sw. ex Schwaegr.) C.M.
 On exposed soil in cleared area.

9292. Fossombronia foveolata Lindb.
on exposed soil in cleared area.

9293. Campylopus surinamensis C.M.
on exposed soil in cleared area.

Apr. 28, 1989. Geneva Co. Under bridge at Choctawhatchee
River on hwy 52 ca. 1/2 mile east of junct.
27. S25 R22E TIN.
w/F. Bowers

9294. Anthoceros carolinianus Michx.
On moist soil of river bank.

April 28, 1989. AL: Coffee Co. Limestone and shale gorge of Mill
Creek at hwy (Co. Rd.) 189, ca. 4.5 miles south of
hwy 166. S25 T5N R19E
36

9295. Odontoschisma prostratum (Sw.) Trev.
On soil at base of rock wall. ←

9295a. Cephalozia catenulata (Hüb.) Lindb.

9296. Lejeunea fiava (Sw.) Nees
On log near creek. Mixed w/9296.

9296a. Leucolejeunea clypeata (Schwein.) Evans
mixed w/9296

§ 10

9297. Scapania nemorosa (L.) Dum.

On soil of gorge wall.

1 9297a. Odontoschisma prostratum (Sw.) Trev. ↗3 9298. Pallavicinia lyelli (Hook.) Carruth.

On thin soil over rock of gorge wall.

§ 13

9299. Conocephalum conicum

On soil over vertical rock of gorge wall.

§ 8

9300. Leucolejeunea clypeata (Schwein.) Evs.On Magnolia grandiflora overhanging creek.1 9300a. Lejeunea cladogyna Evs. ↑1 9301. Fissidens polypodioides Hedw.

On root in small dripping fall.

1 9302. Frullania squarrosa (Reinw., Blume + Nees) Nees

On Beech tree.

1 9302a. Lejeunea cladogyna Evs. ↗2 9303. Riccardia multifida (L.) S. Gray

On soil of gorge wall.

8 9303a. Mnium punctatum Hedw.8 9304. Atrichum undulatum (Hedw.) P.-Beauv.

On soil of gorge wall.

Ask Frank about
variety8 9305 Notothylas obicularis (Schwein.) Soll.

On vertical limestone and shale walls of gorge.

8

9306. Anthoceros

on soil below tree roots of vertical rock wall.

3

9307. Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer & Schreb.

on wet soil near stream.

6

9308. Dicranella grevilleana Schimp.

on soil over limestone and shale of wet vertical walls of gorge.

8

9309. Dumortiera hirsuta (Sw.) Nees

on vertical gorge walls.

4

9310.

on vertical wet gorge walls.

12

9311. ? Pellia epiphylla (L.) Corda

on soil over vertical wet gorge walls.

2

9312. Dicranella rufescens (With.) Schimp.

on vertical wet gorge walls.

1

9313. Selaginella apoda (L.) Spring

on wet vertical gorge walls.

3

9314. Plilonotis

on wet vertical gorge walls

5

9315. Fissidens polypodioides Hedw.
on vertical well gorge walls.

6

Rocksch

9316. Anthoceros carolinianus Michx.
On wet vertical gorge walls.

2

9317. Solenostoma send to Marie
On soil at base of gorge wall.

1

9318. Leucolejeunea clypeata (Schwein.) Evs. / 9318b. Frullania Kunzei
→ On log in creek. (Lehm. + Lindenb.) Lehm. + Lindenb.

1

9318a Frullania obcordata (Lehm. + Lindenb.) Lehm. + Lindenb.

4

9319. Anthoceros carolinianus Michx.
On gorge wall.

8

9320. Odontoschisma prostratum (Sw.) Trev.
On ledge of gorge wall.

3

9321. Cephalozia lunulifolia (Dum.) Dum.
On soil at base of gorge wall.

3

9321a. Scapania nemorosa (L.) Dum. - On soil at base of gorge wall.

9322.

On soil at base of gorge wall.

8

9323. Marchantia
On wet soil at base of gorge wall.

⁸
9324. Scapania nemorosa (L.) Dum.
On soil at base of gorge wall.

⁸
9325. Cephalozia lunulifolia (Dum.) Dum.
On soil at base of gorge wall.

⁴
9326. Anthoceros
On soil over vertical wet rock.

April 28, 1989. AL: Crenshaw Co., along hwy 77 ca. 1.6 mile
X South of hwy 106. S3 T1N R16E
Open roadside.
w/ F. Bowers

9327. Fossombronia foveolata Lindb.
On open moist soil.

²
9328 Calypogeia fissa (L.) Raddi
on soil at base of grass roots

9329. Scapania nemorosa (L.) Dum.
On open soil.

April 28, 1989. AL: Butler Co. ca. 2.4 miles east of Butler/
 ✓ Crenshaw Co. line along Inway 106. Open fields
 and ditch. S28 T8N R16E. J
 w/F. Bowers

²
 9330. Fossombronia braziliensis Steph.
 on open soil of ditch.

¹
 9331. Wisteria frutescens (L.) Poir.
 on roadside climbing on Vaccinium.

²
 9332. Clematis crispa L.
 on roadside at edge of field.

²
 9333. ~~Fern~~ Osmunda regalis var. spectabilis (Willd.) A. Gray
 on moist soil of ditch.

²
 9334. Polygala mariana Mill.
 on open roadside soil.

¹
 9335 Polygala nana (Michx.) DC.
 on open soil of roadside.

²
 9336. Lygonia ?
 on soil of ditch at edge of woods.

²
9337. Vaccinium arboreum Marsh.
On soil of open field.

²
9338. Oenothera biennis L.
On open soil of roadside.

April 28, 1989. AL: Butler Co., ca. 1.2 miles east of hwy
106 & 48 at Pigeon Creek Bridge on hwy 106.
X 528 T8N R15E.
W/F. Bowers

²
9339. Lejeunea flava (Sw.) Nees
On base of "white Pine".

²
9340 Campylium chrysophyllum (Brid.) J. Lange
on soil under bridge just west of Pigeon Creek Bridge

¹
9341. Lejeunea cladogyna Evs.
On base of white Pine.

¹
9342. Anacamptodon sphachnoides (Froel. ex Brid.) Brid.
In knothole of Quercus sp.

³
9343. Pogonatum brachyphyllum (Mk.) P.-Beauv.
On exposed soil.

4

9344. Leucolejeunea clypeata (Schwein.) Evans
On bark of Catalpa near river.

4

9345 Cheilolejeunea rigidula (Nees + Mont.) Schust.
On bark of Quercus sp. near river.

5

9345a. Lejeunea fiava (Sw.) Nees - ↑

9346 Leucolejeunea clypeata (Schwein.) Evs.
On bark of Birch near river.

3

9347 Leucolejeunea uncioloba (Lindenb.) Evs.
On liana near river.

2

9348. Fossombronia
On exposed soil along road to river.

April 28, 1989. AL: Monroe Co., ca. 1.5 miles west of Midway
(junct. 83) along hwy 47. Roadside, high calcareous
bank. S28 R11E T8N.
w/F. Bowers

5

9349. Cephalozia connivens (Dicks.) Lindb.
On calcareous exposed soil.

5

9350. Cephalozia lunulifolia (Dum.) Dum.
On calcareous exposed soil.

³
9351. Scapania nemorosa (L.) Dum.
On calcareous exposed soil.

¹
9352. Lycopodium prostratum Harper
On calcareous exposed soil.

April 28, 1989. AL: Tuscaloosa Co., Along Freeman Creek. ca. 1/2
X mile south of the Fayette/Tuscaloosa County line
along hwy 43. S14 T17S R4E.

¹
9353. Porella pinnata L.
Attached to root in stream.

⁷
9354
On wet soil along stream.

⁵
9355. Mnium affine Bland ex Funck
On moist soil near stream.

¹
9356. Frullania inflata Gott.
On Quercus sp.

²
9356a. Nowellia curvifolia (Dicks.) Mitt.
On log near edge of woods.

April 29, 1989. AL: Winston Co., Natural Bridge. ca. 1.2 miles
 ✓ west of junct. 13+5 off hwy 278. S17 T15 R10W.

⁴
 9357. Bazzania trilobata (L.) Gray
 on thin soil of sandstone bluff.

³
 9358. Jubula pennsylvanica (Steph.) Evans
 on wet vertical sandstone.

April 29, 1989. AL: Franklin Co., Dismals Wonder Garden
 ✓ Dismal Branch Drainage. Eroded Sandstone. ⁷¹⁰ S34 T8S R12W

¹⁰
 9359. Funaria hygrometrica Hedw.
 on burnt soil at entrance to Dismals Wonder Gardens.

¹
 9360 Cephalozia catenulata (Hüb.) Lindb.
 On rotted wood.

³
 9361. Pogonatum pensilvanicum (Hedw.) P.-Beaur.
 On exposed disturbed soil at entrance to Dismals.

²
 9362. Vittaria lineata (L.) J.E. Smith
 On shaded, moist vertical sandstone block.

- ⁴
9363. Sphagnum to Anderson
In seepage area near Dismal Branch.
- ²
9364. Diplophyllum apiculatum (Ers.) Steph.
On wet vertical sandstone.
- ³
9365. Frullania Kunzei (Lehm. & Lindenb.) Lehm. & Lindenb.
On sandstone rock at entrance to ravine.
- ⁴
9366 Sphagnum
In wet area at base of sandstone bluff.
- ²
9367. Sphagnum
In wet area near Dismal Branch.

April 29, 1989. AL: Franklin Co., on limestone glade in
front of Isbell Methodist Church at Isbell. 573 T7S R12W

- ³
9368. Arenaria groenlandica var. glabra (Michx.) Fern.
On open glade. Caryophyllaceae
- ²
9369. Oenothera laciniata Hill
On open glade

³
9370. Salvia lyrata L.
On open glade.

⁴
9371. Senecio smallii Britt.
On open glade.

²
9371a. Schoenolirion croceum (Michx.) Gray; On open glade.

April 30, 1989. AL: Colbert Co., TVA CCC trail. Bluffs above
Tennessee River. East of hwy 72, west of hwy 133 and
North of hwy. 184. S - R11W T35
w/ Caleb Timme

#1
9372 Philadelphus inodorus L.
On rock northfacing slopes.

¹
9373. Osmorhiza longistylis (Torr.) DC.
On rocky slopes.

²
9374. Phacelia bipinnatifida Michx.
On rocky northfacing slope.

²
9375. Polemonium reptans L.
In ravine.

#2
9376. Oxalis grandis small.
In ravine.

¹
9377. Duchesnea indica (Andrz.) Focke.

At base of ravine.

¹
9378. Anisostichus (Bignonia) capreolata (L.) Bureau
Climbing on Bladder Nut at top of bluff.

²
9379. Erigeron philadelphicus L.
~~on~~ In ravine.

²
9380. Carpinus caroliniana Walt.
About 30' from river's edge.

²
9381. ~~Bistorta~~ Arenaria lanuginosa (Michx.) Rohr.
In ravine.

³¹
9382. Staphylea trifolia L.
on bluff overlooking river.

May 3, 1989. AL: Lauderdale Co. ca. 1.2 miles west of hwy 43
X at small stream crossing Co. Rd. #34.
S23 R10W T1S. Rocky stream.

²
9383. Fissidens pusillus (Wils.) Mild.
on rocks along stream.

9384. Lonicera sempervirens L.

In ditch at bridge.

May 3, 1989. AL: Lauderdale Co., ca. 1 mile northeast of Shoal Creek along Co. Rd. # 47. S34 R10W T1S.
 X Cutover roadside at edge of woods.

⁴
 9385. Styrax grandifolia Ait.
 Along roadside.

⁸
 9385a. Lophocolea heterophylla (Schrad.) Dum
 On soil of roadside.

²
 9385b. Lophocolea heterophylla (Schrad.) Dum.
 On soil of roadside.

May 3, 1989. AL: Lauderdale Co., ca. 0.3 mile northeast of Shoal Creek along ^{Co. Rd.} highway 47. Cutover roadside, edge of woods. Shale substrate. S04 R10W T1S

¹
 9386. ✓ Podophyllum peltatum L.
~~Base of ravine.~~ Roadside Ditch.

³✓ 9387. Trillium cuneatum Raf.
On wooded slope of roadside ditch.

²✓ 9388. Actaea pachypoda Ell.
On wooded Slope of roadside ditch.

²✓ 9389. Cynoglossum virginianum L.
Open area of roadside ditch.

³✓ 9390. Maianthemum ^{Liliaceae} racemosum ssp. racemosum (L.) Link
wooded slope of roadside ditch.

May 3, 1989. AL: Lauderdale Co., Wildwood Park off
X Waterloo Rd. Ca. miles east of hwy. 20.
R11W T3S.

⁴ 9391. Phacelia purshii Buckley
In open disturbed area.

¹ 9392. Aquilegia canadensis L.
On soil at edge of east parking lot.

¹ 9393. Erigeron philadelphicus L.
On disturbed soil.

2

9394. Chrysanthemum leucanthemum L.
on disturbed soil.

1

9395. Salvia lyrata L.
on disturbed soil.

7

9396. Dumorteria hirsuta (Sw.) Nees
on wet seeping limestone just west and north of
waterloo Rd. bridge.

10

9397. Lophocolea heterophylla (Schard.) Dum.
on log in woods on north side of waterloo Rd bridge.

4

9398. Amblystegium varium (Helw.) Lindb.
On wet limestone just west and north of waterloo Rd. bridge.

2

9399. Scapania nemorosa (L.) Dum.
on wet soil over limestone on north side of waterloo
Rd. Bridge.

3

9400. Mnium drummondii Bruch & Schimp.
on wet shaded limestone just north of waterloo
Rd. bridge.

2

9401. To Frank
On disturbed soil in park.

May 5, 1989. AL: Lauderdale Co., UNA Campus.

S. T3S R11W.

w/ F. Bowers

⁴
9402 Tortula pagorum (Milde) De Not
On Hackberry south of Floyd Science.

²
9403. Grimmia To Frank
On concrete drain south of Floyd Science.

²
9405. To Frank
On Hackberry.

³
9406. Tortula pagorum (Milde) De Not
on Quercus sp. near Powers Hall.

²
9407. Grimmia alpicola Hedw.
On rock ^{retaining} wall north of Media building.

¹
9408. Orthotrichum to Frank
On Hackberry south of Floyd Science.

¹
9408a. Frullania inflata Gott. ↑

9409 Desmatodon plinthobius Sull. & Lesq.
On exposed rock near drain south of Floyd Science.

9410. Cryphaea To Frank
On Hackberry.

² 9411. Rhacomitrium pyriforme (Hedw.) Hampe
on soil behind union.

¹ 9412. Bryum to Frank
Base of Hackberry.

² 9413. Bryum bicolor Dicks.
On drain at base of north wall of Panh

9414. Entodon seductrix (Hedw.) C.M.
On rock drain south of Floyd Science.

² 9415. Amblystegium varium (Hedw.) Lindb.
On rock drain south of Floyd Science.

9416. Bryum bicolor Dicks.
On rock retaining wall north of Media Building.

May 5, 1989. Gilbert Co; ca. 6 miles south of U.S. 72 and ^{3/4} South ~~Spain~~
of Co. Rd. 41. S. 15 + 16 R12W T5S.
w/Frank Bowers

² 9417. Viburnum acerifolium L.
Along stream.

²
9418. Lindera benzoin (L.) Blume.
Along base of bluff (N-Facing) above stream.

²
9419. Conopholis americana (L.) Wallroth
On north-facing wooded, rocky slope.

¹
9420. Rhododendron alabamense Rehder
Along stream.

¹
9421. Decomaria barbara L.
Climbing on Carpinus along stream.

²
9422. Adiantum ~~pedatum~~ capillus-veneris L.
Base of bluff. (N-Facing)

²
9423. Crataegus marshallii Egg.
On bluff.

¹
9424. Styrax grandifolia Aiton.
Along bluff

¹
9425. Kalmia latifolia L.
Along stream

¹
9426. Hydrangea quercifolia
Along stream.

¹ 9427. Magnolia tripetala L.

In ravine.

¹ 9428. Tsuga caroliniana Engelm.

Near stream.

¹ 9429. Coreopsis auriculata L.

Along stream.

¹ 9430. Tiarella cordifolia L.

Along stream.

¹ 9431. Dodecatheon frenchii

Beneath overhang of waterfall.

² 9432. Thalictrum clavatum DC.

Beneath overhang of waterfall.

¹ 9433. Arisaema triphyllum (L.) Schott.

Along stream

¹ 9434. Chimaphila maculata (L.) Pursh.

On bluff.

¹ 9435. Heuchera americana Pursh.

Along stream near falls.

2

9436. Euonymus americanus L.

Along stream.

2

9437. Tilia americana L.

Near stream.

1

9438. Hedyotis purpurea (L.) Torr. & Gray

Near stream.

2

9439. Crataegus aestivalis (Walt.) T. & G.

Near stream.

3.

9440.

On wet ss boulder of top trail.

1

9441. Thelia hirtella

On stump of bluff trail.

5

9442.

On soil along stream.

4

9443.

Under overhang.

3

9443a. Vittaria lineata (L.) Sm.

15

9444. Trichocolea tomentella

On wet soil at margin of stream.

⁵
9445. Sphagnum
In seepage above falls.

⁵
9446.
On soil along stream.

⁴
9447. Polytrichum
In seepage area above falls.

²
9448. Scapania
On soil along stream.

9449. Bartramia pomiformis
On soil over rock along stream.

³
9450.
On sandstone boulders

³
9451. Dumorteria hirsuta
under overhang of falls.

²
9452. Diphygium
On sandstone (nearly vertical).

⁵
9453. Leucobryum
On base of tree.

²
9454. Fontinalis

In seepage stream above falls.

9455. Leucolejeunea

On sandstone boulder along stream.

³
9456. Conocephalum conicum

On boulder in stream.

¹
9457. Gymnostomum

On nearly vertical ss.

²
9458. Fissidens

On wet soil below overhang.

²
9459.

On wet soil below overhang

²
9460. Orthotrichum

On American Hornbeam.

¹
9461. Brachythecium

on ss boulder.

¹
9462. Ctenidium

On ss boulder.

¹
9463. Weissia controversa
on disturb soil of bluff trail.

²
9464.
on ss boulder.

²
9465. Funaria flavicans
on soil of pasture.

¹
9466. Barbula
on soil of pasture.

¹
9467. Solo
on wet ss boulder in stream.

¹
9468.
on wet soil over ss.

¹
9469. Diplycium
on wet nearly vertical ss.

¹
9470. Leucobryum
on north-facing slope.

²
9471. Taxiphyllum
on wet ss under overhang.

2

9472. Philadelphus hirsutus Nuttall
On soil over sandstone.

1

9473. Foresstromia
On Carpinus

2

9474.
On north-facing slope.

1

9475. Atrichum
On log of bluff trail

1

9476.
On rock along stream.

1

9477.
On moist trunk of Beech.

6

9478. Pallavicinia lyellii
under overhang of falls.

5

9479.
On moist soil.

3

9480. Philonotis
On wet soil of underledge.

²
9481.

On sandstone boulder in stream.

²
9482. Bryoandersonia illecebra
On soil in woods.²
9483. Thuidium
On soil in woods.²
9484. Polytrichum ohioense
On soil of bluff trail.³
9485. Anium
On soil near falls.³
9486. Dicranum scoparium
On trail of bluff.¹
9487. Diplophyllum
On wet vertical ss.²
9488. Trichomanes
In crevice below overhang.¹
9489. Grimmia
On boulder in stream.

³
9490. Leucolejeunea
On sandstone boulder.

⁵
9491. Polytrichum
On soil along stream

May 11, 1989. AL: Lauderdale Co., In old field along Co. Rd # 14
~ 3.5 miles SE of Natchez Trace. S20 R12W T2S.
w/ F. Bowers.

⁴
9492. Callitriche terrestris Raf.
On damp soil at margin of field.

^{ok}
~~X~~ May 11, 1989. AL: Lauderdale Co., Along trace ~ 3/4 mile NE
of Co. Rd # 14. Disturbed roadside and adjacent
woods. S15 R13W T2S.
w/ F. Bowers.

²
9493. Ditrichum pallidum (Hedw.) Hampe
On soil along roadside.

²
9494. Leucobryum glaucum (Hedw.) Ångstr. ex Fries
On soil of roadbank.

- ³ 9495. Atrichum angustatum (Brid.) BSG
 On soil of trace roadbank.
- ¹ 9496 Campylium chrysophyllum (Brid.) J. Lange
 On soil along hiway.
- ² 9497 Entodon seductrix (Hedw.) C.M.
 On soil of roadbank along trace.
- ² 9498. Brachythecium oxycladon (Brid.) Jaeg. & Sauerb.
 On soil of roadbank.
- ⁴ 9499. Polytrichum commune Hedw.
 On soil at margin of woods and roadbank.
- ² 9500. Frullania squarrosa (Reinw. & Blume & Nees) Nees
 On bark of recently fallen Quercus sp.
- ² 9501. Thuidium delicatulum (Hedw.) BSG.
 On soil of roadside.
- ³ 9502. Frullania inflata Gott.
 On base of Juniperus virginiana.

May 11, 1989. AL: Lauderdale Co., Along trace and intermittent stream draining into cypress creek. S4 R12W T13.
 w/f. Bowers.

- ¹ 9503. Callitriche terrestris Raf.
 On damp soil in low area adjacent to stream.
- ² 9504. Bryum lisae var. cuspidatum (BSG) Marg.
 On soil at margin of hiway.
- ⁵ 9505. Funaria hygrometrica Hedw.
 Along hiway margin.

2

9506. Weissia controversa Hedw.

On soil at edge of hiway.

2

9507. Send to Frank

9507a. Send to Frank

4

9508. Mnium medium BSG

On moist soil of intermittent stream bed.

1

9509. Frullania inflata Gott.On Carpinus caroliniana.

3

9510 Fontinalis

On moist soil of intermittent stream bed.

3

9511. Bryum argenteum Hedw.

On soil along hiway at margin.

2

9512. Frullania inflata Gott.On Acer sp.

1

9513. Thelia hirtella (Hedw.) Sull.On Acer sp.

1

9514. Frullania inflata Gott.On Juniperus virginiana.

9515. Leskea australis Sharp
On Juniperus virginiana.
9516. Clasmatodon parvulus (Hamp.) Hook. & Wils. ex Sull.
On Juniperus virginiana.
9517. Pleurochaete squarrosa (Brid.) Lindb.
On soil of roadside bank along trace.
9518. Frullania inflata Gott.
On bark of Betula nigra.
9519. Platygyrium repens (Brid.) BSG
On log.
9520. Atrichum undulatum (Hedw.) P. Beauv.
On soil along periodically flooded area near stream.
9521. Climacium americanum Brid.
On soil of road bank.
9522. Fissidens obtusifolius Wils.
On rocks in intermittent stream bed.
9523. Frullania inflata Gott.
On bark of Acer sp.
9524. Mnium cuspidatum Hedw.
On shaded soil along roadside.

3

9525. Betula nigra L.

Along intermittent stream near main stream.

1

9526. Carex crinita Lam.

Near margin of stream.

2

9527. Allium canadense L.

Margin of woods and roadside ditch.

May 11, 1989. AL: Lauderdale Co. Bridge over Middle Cypress
 Creek on Co. Rd. # 157. 526 R12W T1S. ~ 1/2 mile
 SE of Cloverdale (Co. Rd. # 8).
 w/ F. Bowers.

5

9528. Frullania inflata Gott.On bark of Betula nigra.

8

9529. Mnium affine Bland ex Funck

On soil near stream.

4

9530. Frullania squarrosa (Reinw., Blume + Nees) Nees

On bark of log.

1

9531. Homalotheciella subcapillata (Hedw.) Broth.On bark of Acer negundo.

^{0*} May 11, 1989. AL: Lauderdale Co.; wildwood Park.

X Bluffs along Cypress Creek. "Limey" Rock.

w/ F. Bowers.

⁴ 9532. Reboulia hemisphaerica (L.) Raddi.
On thin soil of rock ledges and crevices.

¹ 9533. Conocepalum conicum (L.) Lindb.
Attached to rock at drain pipe at base of bluff.

⁶ 9534. Fissidens gradifrons Brid.
Attached to rock at drain pipe at base of bluff.

¹⁰ 9535. Dumortiera hirsuta (Sw.) Nees.
Submerged in water of drain at base of bluff - Free floating

² 9536. Pohlia nutans (Hedw.) Lindb.
mixed w/ Leucobryum albidum at base of tree.

² 9537. Leucobryum albidum (Brid.) Lindb.
mixed w/ Pohlia nutans at base of tree.

³ 9538. Anomodon rostratus (Hedw.) Schimp.
On rocks of bluff.

⁴ 9539. Pohlia wahlenbergii (web. & Mohr) Andr.
On wet rock of vertical bluff face.

⁵ 9540. Dicranum scoparium Hedw.
On soil along trail at top of bluff.

³ 9541.
In water attached to 9535.

² 9542. Bryandersonia illecebra (Hedw.) Robins.
On soil.

¹ 9543 Neckera complanata (Hedw.) Hüb.
On rock ledges of vertical bluff.

² 9544. Fissidens
On rock in moist floodplain.

¹ 9545. Anomodon minor (Hedw.) Fühnr.
On rock ledge.

² 9546. Mnium cuspidatum Hedw.
On moist exposed soil of stream floodplain.

¹ 9547. Tortula
On soil over on rock ledge.

- ² 9548. Platygrium repens (Brid.) BSG
On log.
- ² 9549. Odontoschisma prostratum (Sw.) Trev.
On sandy soil.
- ² 9550. Calypogeia fissa (L.) Raddi
On sandy soil.
- ² 9551. Lophocolea heterophylla (Schrad.) Dum.
On sandy soil.

May 14, 1989. ~~Sw~~ KS: Sumner Co., Road leading to Knight Farm.
Ca. 3.0 miles SW of Caldwell
w/C. Timme. 58 R3W T35S

- ² 9552 Baptisia australis var. minor (Lehm.) S. Wats.
In pasture.
- ³ 9553. Tragopogon dubius Scop.
In pasture.
- ² 9554. Achillea millefolium L.
In pasture.
- ² 9555. Tradescantia bracteata Small
In pasture.

- ²
9556. Callirhoe alcaeoides (Michx.) A. Gray
In pasture.
- ²
9557. Asclepias viridis Walt.
In pasture.
- ¹
9558. Vicia villosa Roth.
Along roadside ditches.
- ²
9559. Prunus angustifolia Marsh.
Along fence-row of roadside ditch.
- ³
9560. Oxytropis lamberti: Pursh
Along roadsides.
- ¹
9561. Allium canadense var. fraseri M. Ownbey
In pasture.
- ¹
9562. Callirhoe involucrata (T. & G.) A. Gray
Along roadsides.
- ³
9563. Gymnocladus dioica (L.) K. Koch.

May 14, 1989. KS: Sumner Co. Rocky, sandy Road^{side} just south of Knight Farm; ca. 4.5 miles SW of Caldwell on Kansas Oklahoma State line.

w/ C. Timme S14R3W T35S

9564. Gaillardia suavis (Gray & Engelm.) Britt. & Rusby

9565 Linum pratense (Nort.) Small

9566. Lomatium foeniculaceum var. daucifolium (T. & G.)
Cronq.

9567. Hymenopappus scabiosaeus var. corymbosus (T. & G.)
B.L. Turner — along roadside prairie.

9568. Engelmannia pinnatifida A. Gray ex Nutt.

9569. Hymenoxys linearifolia Hook.

9570. Penstemon cobaea Nutt.

³ 9571. Sphaeralcea coccinea (Pursh) Rydb.

² 9572 Calylophus serrulatus (Nutt.) Raven

¹ 9573. Delphinium virescens Nutt.

May 16, 1989. KS. Chautauqua Co. Along hwy. 166 ca. 9.0 miles
 X west of Sedan. S7 R10E T34S. Roadside prairie.
 w/L. Timme

¹ 9574. Penstemon Cobaea Nutt.

¹ 9575. Oenothera macrocarpa Nutt.

May 16, 1989. KS. Cowly Co. ~ 1/10 mile east of
 X Cowly Lake on south side of hwy. 166. S8 T34S R6E

⁴ 9576. Penstemon grandiflorus Nutt.
 In prairie.

May 21, 1989. AL: Colbert Co., TVA Reservation. Walking
 X trail area. TVA road from hiway 43 to Wilson Dam

R12W T3S

w/ Dianne Jackson

2
 9577. Acer negundo L.

Margin of woods near parking lot.

1
 9578. Erodium cicutarium (L.) L'Her.

In grassy area near parking lot.

2
 9579. Geranium molle L.

In grassy area near parking lot.

2
 9580. Tilia americana L.

5
 9581. Frullania inflata Gott.

On rock wall.

5
 9582. Porcella pinnata L.

On base of Quercus sp.

May 24, 1989. MS: Oktibbeha Co. Approx. miles west
of Oktoc Road.

w/A. Daenick and F. Swan

9583. Silybum marianum (L.) Gaertn.
Disturbed roadside and cattle lot.

May 25, 1989. AL: Winston Co., behind Holeyville High School
near pond. 534 RIDW T95

³
9584. Equisetum hyemale var. affine (Engelm.) A.A. Eaton.
Edge of pond.

May 27, 1989. MS. Leake Co. Roadside ditch on NW side of Hwy 25
ca. 0.5 mile SW of Marydell. 520 R9E T12N

9585.
Along roadside.

May 27, 1989. MS. Oktibbeha Co. Chalk prairie ca. 2.2
 X miles north of old hiway 82, east of church.
 S16 R15E T19N

²
 9586. Blephilia ciliata (L.) Benth. In power line right of
 way.

May 27, 1989. AL. Franklin Co. Tebell Methodist Church.
 — Limestone glade ca. 2.3 miles south of jct.
 243 & 43. S12 R12W T7S.

⁴
 9587. Delphinium carolinianum Walter.
 In open glade.

⁴
 9588. Erigeron strigosus Muhl. ex Willd.
 In open glade.

9589. Dalea

9590. Hedyotis nuttalliana Fosb. - margin of woods.

May 29, 1989. AL: Lauderdale Co. Wildwood City Park (Florence);
 Off Hwy 14 (Waterloo Rd.) ca 1.5 miles east of Hwy 20
 (Savanna Hwy); S R11W T3S.

9591. Hydrangea quercifolia Bartr.

On rock wall along road to east parking lot.

4
 9592. Decumaria barbara L.

Climbing over limestone southfacing, vertical bluff.

4
 9593. Aristolochia tomentosa Sims

Climbing over sumac along stream.

4
 9594. Spigelia marilandica L.

On stream bank.

2
 9595. Asplenium platyneuron (L.) B.S.P.

On vertical rock.

3
 9596. Polystichum acrostichoides (Michx.) Schott.

In partial shade of floodplain near
 Stream.

May 29, 1989. AL: Lauderdale Co., 818 Ridgeway, city of
 Florence. S R11W T3S

⁴
 9597 Poncirus trifoliata (L.) Raf.
 Planted on east side of house.

²
 9598. Fraxinus pennsylvanica var. subintegerrima (Vahl) Fern.
 In yard across Ridgeway of house 818. w/ flowers
 T3S, R11W

Comp
 June 30, 1989. KS: Sumner Co., ca. 2.0 miles southwest of
 Caldwell; just west of FAS 788 on state line.
 Rocky roadside and disturbed prairie.
 S16 R3W T35S.
 w/ Caleb Timme

³
 9599. Monarda citriodora Cerv.

³
 9600. Stenosiphon linifolius (Nutt.) Britt.

¹
 9601. Hedyotis nigricans (Lam.) Fosb.

¹
 9602. Dalea candida Michx. ex Willd.

²
 9603 Dalea aurea Nutt.

² 9604. Calylophus serrulatus (Nutt.) Raven

³ 9605.

¹ 9606. Ratibida columnifera (Nutt.) Wooton & Standl.

¹ 9607. Asclepias stenophylla A. Gray

² 9608. Mirabilis glabra (S. Wats.) Standl.

² 9609. Monarda fistulosa L.

² 9610. Verbena stricta Vent.

⁵ 9611. Echinacea angustifolia DC.

² 9612. Dalea purpurea Vent.

³ 9613. Solvia reflexa Hornem.

⁵ 9614. Bouteloua hirsuta Lag.

² 9615 Bouteloua gracilis (H.B.K.) Lag. ex Griffiths

⁴ 9616 Aristida oligantha Michx.

- ¹ 9617. Gaura parviflora Dougl.
- ³ 9618. Euphorbia missurica Raf.
- ⁴ 9619 Bouteloua curtipendula (Michx.) Torr.
- ³ 9620. Polanisia dodecandra subsp. trachysperma (T. & G.) Iltis

Comp

June 30, 1989. KS: Sumner Co., ca. 2.5 miles SW of Caldwell.
 Knight Farm at southern end of FAS 188. S17 R3W T35S
 Disturbed areas of Farm.

- ¹ 9621. Polygonum scandens var. dumetorum (L.) Gl.
- ³ 9622. Datura stramonium L.
- ¹ 9623 Parthenocissus quinquefolia (L.) Planch.
- ² 9624. Oxalis dillenii Jacq.
- ² 9625.
- ¹ 9626. Argemone polyanthemus (Fedde) G. Ownbey
- ³ 9627. Euphorbia maculata L.

⁵
9628. Cyperus

Comp
July 1, 1989. KS: Sumner Co., ca. 6.0 miles west of Caldwell
and 0.5 mile north of FAS 995. S. 3 R4W T35S.
Disturbed roadside.

²
9629. Desmodium illinoense A. Gray

¹
9630. Amorpha canescens Pursh

Comp
July 1, 1989. KS: Sumner Co., Gravel road leading to
Knight Farm at south end of FAS 788. S17, R3W
T35S. Disturbed roadside.

³
9631.

²
9632. Elymus virginicus L.

⁴
9633.

9634. Polygonum pensylvanicum L.

²
9635. Setaria geniculata (Lam.) Beauv.

³
9636.

²
9637. Rudbeckia hirta L.

¹
9638. Cirsium undulatum (Nutt.) Spreng.

³
9639. Sapindus saponaria var. drummondii (H. & A.) L. Benson

¹
9640. Geum canadense Jacq.

Comp.

February 2, 1990. MO: Greene Co. Springfield

⁴
9641. Alnus serrulata (Ait.) Willd.

February 17, 1990. KS: Neosho Co., Neosho State Fishing Lake
Ca. 1.5 mile south of hwy 57 on FAS 1788.

²
Picnic area on east side of lake. S30 R21E T29S
9642. Mnium cuspidatum Hedw. on moist soil

²
9643. Bryum argenteum Hedw. on soil near picnic areas.

- 2
9644. Brachythecium acuminatum (Hedw.) Aust. On log.
- 9644a. Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer & Schreb.
- 9644b. Mnium punctatum Hedw. → On soil at base of old tree.
- Comp.
March 3, 1990. Tx. Refugio Co., Aransas National Wildlife Refuge
Along roadside off Hwy 239. Road from 239
w/ Cindy Ford. leading into refuge.

- 9645 Phacelia patuliflora (Engelm. & Gray) Gray
9646. Tradescantia tharpian Anders. & Woods.
9647. Argemone albiflora Hornem. subsp. texana G. Ownbey
9648. Vaccinium darrowii Camp
9649. Phlox pilosa L.
- 9649a. Nothoscordum bivalve (L.) Britt.
9650. Linaria canadensis (L.) Dum.
- 9651 Cnidocaulous texanus (Muell. Arg.) Small
9652. Lesquerella lindheimeri (Gray) Wats.
9653. Castilleja indivisa Engelm.

- '9654. Lupinus texensis Hook.
- '9655. Gaillardia
- '9655a. Sphaeralcea lindheimeri Gray
- '9656. Callirhoe involucrata (Torr.) Gray
- '9657. Pyrrhopappus multicaulis DC.
9658. Verbena halei Small ?
- '9659. Hymenopappus artemisiaefolius DC.
9660. Lantana scorta Moldenke
- '9661. Oenothera triloba Nutt.
- '9662. Tillandsia recurvata L.

comp.
 March 13, 1990. TX. ^{San Patricio} ~~Anansas~~ Co. Hwy 35 at bridge across
 Copano Bay. South end of bridge.
 Sandy beach.

- '9663. Machaeranthera phyllocephala (DC.) Shinnars
- ²
 9664. Teucrium cubense Jacq.

9665.

¹ 9666. Maurandya antirrhiniflora Willd.³ 9667. Cakile geniculata (Robins.) Millsp.² 9668. Coreopsis basalis (Otto & Dietr.) Blake

Comp.

March 14, 1990. TX: Cameron Co. Laguna Atascosa Wildlife
Refuge. Along road through refuge. National² 9669. Salvia coccinea Murr.9670. Eupatorium incarnatum Walt.9671. Lantana camara L.9672. Acacia farnesiana (L.) Willd.¹ 9673. Leucophyllum frutescens (Berl.) I.M. Johnston.9674. Heliotropium curassavicum L.

9675. Menodora heterophylla Moric

9676. Dalea

9677. Pinaropappus roseus (Less.) Less.

9678. Prosopis glandulosa Torr.

comp.

march 15, 1990. TX: Cameron Co., Thomas Park next to
Arroyo Colorado just outside Arroyo City along
In Mesquite. Laguna Atascosa Nat. w. life Ref.

9679. Verbena bipinnatifida Nutt.

9680. Lantana horrida H.B.K.

9681. Solanum trignetrum Cav.

9682. Rivina humilis L.

9683.

9684.

9685.

Comp.
 March 15, 1990. TX: Cameron Co. Thomas Park, just outside
 Arroyo City along Arroyo Colorado. Refuge side.
Borrhichia intermittent wet, low flats.

9686. Dalea emarginata (T. & G.) Shinnars

9687.

9689. Haplopappus phyllocephalus DC.

9690.

Comp.
 March 15, 1990. TX. Cameron Co., mouth of Rio Grande,
 sand flats. U.S. side.
 w/ Biology Field Group.

¹ 9691. Gaillardia pulchella Foug.

² 9692. Oenothera drummondii Hook.

9693. Physalis viscosa var. spathulaefolia (Torr.) Gray

9694. Borrhichia frutescens (L.) DC.

9695. Salicornia virginica L.

9696. Heliotropium curassavicum L.

9697. Chamaesyce

9698.

9699. Sesuvium portulacastrum L.

9700

9701.

Comp.

March 16, 1990. TX. Cameron Co., South Padre Island.

Sand dunes and flats along Shway 100.

9702. Baptisia bracteata var. laevicaulis Canby.

9703. Erigeron myrionactis Small sandy disturbed area
near parking lot

9704. Ipomoea pes-caprae ssp. brasiliensis (L.) van Ooststr.

9705. Polygala alba Nutt.

Complete

April 1, 1990. MO: Barry Co., Roaring R. State Park. S27 R27W
 ca. 5.0 miles S of jct 76 and 112 S27 T22N.
 off Hwy 112. R27W

9706. Frullania inflata Gott.

On Juniperus virginicus along Deer Leap trail. Dry uplands.
 West Facing Slope.

9707. Porella platyphylla (L.) Pfeiff.

On log at Deer Leap trail near Hatchery. Dry uplands.
 West Facing Slope.

9708. Conocephalum conicum (L.) Lindb.

On wet sandstone near spring mouth at
 Hatchery. West facing Slope.

9709. Porella platyphylla (L.) Lindb.

On decaying cedar along River Trail. SW facing slope

Comp.

April 1, 1990. KS: Cherokee Co. Schermehorn City Park.
 ca. 1.2 mile south of Galena at Hwy 26 bridge of
 Shoal Creek. S27 R25E T34S.

9710. Mnium cuspidatum Hedw.

On rocky soil of west facing slope.

9711 Frullania inflata Gott.

On Quercus sp. near creek.

9712. Fissidens taxifolius Hedw.

In wet seeping crevice of south slope.

9713. Frullania squarrosa (Reinw., Blume & Nees) Nees

On Sycamore near Creek.

Comp.

April 2, 1990. KS: Neosho Co., Neosho State Waterfowl Management Area. S30 R21E T29S.

9714. Entodon seductrix (Hedw.) C.M.

w/ sporophytes

On log near southeast end of lake.

Comp.

April 4, 1990. MO: Dade County. Bona Glade - SS outcrops on north side of Hwy 215 (a. 1.4 miles w. of Bona (Hwy 215)). S32 R25W T33N.

9715. Frullania inflata Gott.

On Cornus florida.

9716. Calypogeia fissa (L.) Radd:
In ss crevice.

9717. Reboulia hemisphaerica (L.) Radd:
On sandstone ledges and in crevices.

9718. Calypogeia fissa (L.) Radd:
In ss crevice.

9719. Climacium americanum Brid.
On moist ss ledge.

comp
April 12, 1990. ms: Union Co. ^{wooded} Ravine ca. 5 miles east of
junct. 15 + 30 on north side of hwy 30. S. 31 R4E T6S.

9720. Lophocolea bidentata (L.) Dum. on decaying log.

9721. Chiloscyphus pallescens (Ehrh.) Dum on cave wall.

9722 Frullania squarrosa (Reinw. et. al.) Dum.

9723 Porella platyphylla (L.) Pfeiff. Base of Acer sp.

1 9724. Lophocolea bidentata (L.) Dum.
on rotting log.

Comp.
Apr. 13, 1990. MS: Union Co. Sherra Owen resident.
Wooded ravine. 524 RBE TBS.

9725. Drummondia prorepens (Hetw.) E.G. Britt. on oak

9726. Frullania inflata Gott. on Hackberry

9727. Frullania squarrosa (Reinw. et al.) Dum.
on oak.

Comp.
Apr. 13, 1990. MS: Tishomingo Co. Cave Springs along
Natchez Trace just SW of MS/AL state line.
Sandstone outcrops at cave entrance. 515 RBE TBS.

9728.

2 9729 Trechomanes boschianum Sturm
On dripping sandstone above
cave entrance.

9730. Plagiochila asplenoides subsp. porelloides (Torrey et Nees) Schust.
 On ss. wall at cave entrance.
- 4
 9731. Pellia epiphylla (L.) Corda on moist, shaded ss wall
 at cave entrance.
9732. Pellia epiphylla (L.) Corda same as 9731.
9733. .

Comp.

April 14, 1990. AL: Colbert Co., Under dripping ss overhangs ca.
 9.6 km South of US Hwy 72 and 1.2 km north of Co.
 Hwy 41. Cane Cr. Drainage. James Lacefield Farm.
 T5S R12W S15T16.

- 5
 9734. Dodecatheon frenchii (Vasey) Rydb.
 Under ss overhang

Comp

May 13, 1990. KS: ~~Crawford~~ ^{Cherokee} Co. Ca. ^{4.5} ~~5.0~~ miles west of Hwy 7
 on gravel road 1.0 mile north of Hwy 160. Along roadside.
 S8 R23E T31S.

9735. Tradescantia ohioense Raf. Roadside ditch.
 Along roadside - 4 sepals + Petals.

May 13, 1990. KS: Crawford Co., small prairie ca. 1/4 m. west
of 69 and north of Country Club Road. S6 R25 E T31S

¹ 9736. Castilleja coccinea (L.) Spreng.

³ 9737. Corydalis crystallina Engelm.

² 9738. Sisyrinchium angustifolium P. Mill.

¹ 9739. Zizia aurea (L.) Koch

comp.
May 20, 1990. OK. Grant Co., R3W T35S
Knight Pasture ~ 1/4 - 1/2 mile south of Kansas/Oklahoma
State line.
w/ Clifford Knight

9740. Polytaenia nuttallii DC roadside prairie

² 9741. Senecio plattensis Nutt. roadside prairie

² 9742. Hymenoxys scaposa (DC.) Parker - roadside prairie.

¹ 9743 Gillardia suavis (Gray & Engelm.) Britt. roadside
prairie

- ¹ 9744. Linum pratense (Nort.) Small roadside prairie
- ² 9745. Astragalus crassicaarpus - roadside prairie
9746. Delphinium virescens Nutt.
- ² 9747. Sisyrinchium montanum Greene Roadside prairie
- ¹ 9748. Psoralea tenuiflora var. floribunda (Nutt.) Rydb. roadside prairie
- ² ^{comp} change to KS
May 20, 1990. OK. Grant Co. R3W T35S. S17
Kansas/Oklahoma road - Kansas side. Roadside
w/ Clifford Knight.
- ¹ 9749 Calylophus serrulatus (Nutt.) Raven roadside prairie
- ¹ 9750. Morus alba L. roadside fence row
- ² 9751. Maclura pomifera (Raf.) Schneid. roadside thicket.
- ² 9752. Allium drummondii Regel roadside prairie

~~9753~~

comp.

May 20, 1990. KS. Cowley Co., On N. side of Hwy 166
ca. 7.25 m. w. of junct. 15 S. and 1.5 m. E. of
Cowley County State Lake. Roadside Prairie.
S10 R6E T34S

9753. Hymenopappus scabiosaeus var. corymbosus (T. & G.) B.L.
Turner

9754. Calylophus serrulatus (Nutt.) Raven roadside prairie

comp.

May 21, 1990. KS. Harper Co., S26 R8W T33S. On N. side
of Hwy 160 1/4 m east of road to Ruella and
Waldron and 8 m. w of Anthony.

9755. Castilleja purpurea (Nutt.) G. Don. roadside bank

comp.

May 21, 1990. KS. Barber Co., S3 R10W T34S. Wet ditch along
Hwy 14 + 2 ca. 1.5 m NE of Hazelton.

E1

9756. Salix nigra Marsh.

comp

May 21, 1990. KS. Barber Co. S19 R10W T34S. Along RR
ca. 1.75 M NW of Medicine Lodge River. Roadside
Prairie.

2 comp

9757. Oxytropis sericea Nutt. roadside prairie

2

9758. Psoralea argophylla Pursh roadside prairie

9759,

comp

May 21, 1990. KS. Barber Co. City Park. S8 R12W T35S.

2

9760.

. comp

May 21, 1990. KS. Barber Co. S29 R12W T34S. Pasture
on west side of county road ca. 3 M N. of
Hardtner. Hwy 281.

2

9761. Buchloë dactyloides (Nutt.) Englem. Pasture

2

9762. Gaura coccinea Pursh Pasture

9763. Polygala alba Nutt. rocky prairie.

comp

May 21, 1990 KS. Barber Co. S30 R12W T32S. Gypsum Hill
Prairie. ca. 3 N SW of Hwy 160.

² 9764. Oxytropis lamberti: Pursh - rocky prairie

¹ 9765. Oxytropis sericea Nutt. - Rocky prairie

³ 9766. Astragalus lotiflorus Hook. - gypsum prairie

² 9767 Astragalus gracilis Nutt. - gypsum prairie

¹ 9768. Senecio plattensis Nutt. gypsum prairie

¹ 9769. Linum rigidum var. berlandieri (Hook.) T. & G. sandy roadside
Prairie

¹ 9770. Verbena bipinnatifida Nutt. Dry roadside prairie.

^{comp}
 May 21, 1990. Barber Co., S2 R14W T33S. Roadside
 Prairie. ca. 5.5 m. South of Hwy 160.

- ²
 9771. Hymenoxys acaulis (Pursh) Parker - Upland prairie roadside
- ²
 9772. Erigeron modestus A. Gray - upland prairie roadside

^{comp}
 May 21, 1990. Comanche Co., S5 R16W T32S. Sandy
 Prairie along Hwy 160 ca. 13 m E. of
 Coldwater.

- ²
 9773. Melampodium leucanthum T & G. Sandy roadside prairie
- ²
 9774 Leucelene ericoides (Torr.) Greene Sandy roadside
 Prairie
- ²
 9775 Hymenoxys acaulis (Pursh) Parker Sandy roadside
 Prairie
- ¹
 9776 Haplopappus spinulosus (Pursh) DC. roadside
 Sandy prairie

May 21, 1990. KS. Comanche Co., S19 R18W T32S.
 Roadside Prairie ca. 2 m S. of Coldwater
 along Hwy 183.

- ¹
 9777. Calylophus berlandieri Spach, roadside prairie

^{comp}

May 21, 1990. KS. Comanche Co., S1 R19W T33S. Junct.
of Hwy 1 and 160/183 ca. 4.25 M South of
Coldwater. Ditch.

² 9778. Rorippa sinuata (Nutt.) Hitchc. in ditch

^{comp}

May 21, 1990. KS. Comanche Co., S¹/₄ R20W T33S. Roadside
Prairie along Hwy 160/183 ca. 1.5 m E. of
Protection.

² 9779 Helianthus petiolaris Nutt. sandy hillside prairie

² 9780 Gaillardia pulchella Foug. sandy hillside prairie

² 9781. Linum rigidum Pursh sandy hillside prairie

^{comp}

May 21, 1990. KS. Meade Co. Lake Meade State Park.
S23 R29W T33S. Prairie + Woods.

¹ 9782. Penstemon albidus Nutt. sandy prairie roadside
in park.

² 9783. Fraxinus pennsylvanica Marsh. In alluvial flood
plain at south end of Lake.

- ² 9784. Vitis riparia Michx. edge of woods along
nature trail.
- ² 9785. Celtis reticulata Torr. edge of woods along ^{nature} trail on
south end of lake.
9786. Morus alba L. woods at edge of lake.
- ¹ 9787. Agoseris glauca (Pursh) Dietr. var. laciniata (D.C. Eaton)
- prairie Smiley
- ² 9788. Veronica catenata Penn. in water at south margin of Lake.
- ³ 9789. Ribes odoratum Wendl. at edge of woods along
nature trail.
- ¹ 9790 Populus deltoides subsp. monilifera (Ait.) Eckenw.
along south side of lake.
- ¹ 9791 Fraxinus americana L. edge of woods.
- ¹ 9792. Salix exigua Nutt. subsp. interior (Rowlee) Cronq. roadside wet
ditch

Comp

May 21, 1990. KS. Meade Co. S11R28W-T31S. Prairie
along Hwy 23 ca. 2.5 m S. of junct. 98.

- ¹ 9793. Chorispora tenella (Pall.) DC. roadside ditch
- ³ 9794. Allium drummondii Regel roadside ditch
near farm.

³ 9795. Allium drummondii Regel roadside ditch

comp
May 21, 1990. ^{KS.} Meade Co. Yard in Meade.

¹ 9796. Linum rigidum var. berlandieri (Hook.) T. & G.
S11 R28W T32S

comp
May 22, 1990. KS. Kiowa Co. S23R19WT28S.
Along Hwy. 54 2.7 m W. of junct. 183. Roadside ditch.

¹ 9797. Penstemon grandiflorus Nutt. along roadside

comp
May 22, 1990. KS. Kiowa Co. S15R18WT28S.
Roadside Park ca. 1/4 m. E. of Greensburg.

¹ 9798. Gleditsia triacanthos L. (forma inermis Schneider)
cultivar thornless form

Comp

May 22, 1990. KS. ~~Harpe~~ Barber Co., S12 R12W T32S.
 Along roadside ca. $\frac{1}{4}$ m. E. of Medicine Lodge
 along Hwy. 160.

9799. Centaurea cyaneus L. roadside ditch

Comp

May 22, 1990. KS. Sumner Co. S5 R3W T35S.
 Along roadside ca. $\frac{9}{10}$ m. N. of FAS 995.

9800. Yucca glauca Nutt. roadside prairie.

May 22, 1990. KS. Gray Co., S4 R30W T29S. Roadside along
 Hwy 144 ca. 2.5 m W. of jct. Hwy. 56.

9801. Mirabilis fungal infected - discard

May 22, 1990. KS. Ford Co., S¹~~5~~ R25W T27S.
 Roadside ca. .75 m N. of Hwy. 56 along FAS 1734.

9802. Oenothera - fungal infected - discard

May 23, 1990. KS. Sumner. S17R3W T35S. Knight Farm.

Disturbed farm area and along Bluff Creek. Ca. 2.5 miles SW of Caldwell.

² comp.

9803. Sapindus seponaria var. drummondii (H. & A.) L. Benson

9804. Corydalis aurea subsp. occidentalis (Englm.) Ownbey ^{Roadside, edge of field}

9805. Penstemon cobaea Nutt. undisturbed area of pasture.

9806. Hymenoxys scaposa (DC.) Parker along roadside.

² 9807. Gymnocladus dioica (L.) K. Koch. In farm lot.

² 9809. Amorpha fruticosa L. Shale bank at Bluff Creek.

^{comp}
May 24, 1990. MO. Greene Co. Seguiota Park S9R21W T28N.
On 1S boulder near entrance to cave.

² 9810. Pellaea atropurpurea (L.) Link on ss rock in crevice.

9811. Reboulia hemisphaerica (L.) Radd.
on ss rock

9811a. Frullania riparia Hampe ex Lehm. on ss rock.

9812.

9813.

Comp^{LS}
May 24, 1990. MO. Greene Co. Glades south of Hwy 60
and w. of 65 bypass. S16R21W T28N.

9814. Delphinium treleasei Bosh open rocky ground

9815. Allium canadense var. lavendulare (Bates) M. Ownbey
open rocky ground

9816. Penstemon pallidus Small open rocky ground

9817. Potentilla recta L. Open ground.

Comp^{NW 1/4}
June 8, 1990. KS: Crawford Co., Railroad Prairie - S16R24E
just nw of Mo. Pacific RR ca. 2.1 m east T31S
of Hwy 7 on north side of gravel road.

9818. Krigia caespitosa (Raf.) Chambers

9819. Platanthera lacera (Michx.) Lodd.

Habenaria →

Comp.

June 16, 1990. MO. Dade Co. Bona Glade - SS outcrops
on north side of Hwy 215 ca. 1.4 miles W. of BONA
(Hwy 245). S32 R25W T33N.
w/ Tim & Leigh Smith

9820. Sedum nuttallianum Raf. - on exposed ss - thin soil.

9820a. Scapania nemorosa (L.) Dum. on ss of intermittent
gully.

Comp.

June 22, 1990. OK. Craig Co. west of Welch and ca. 1.0
mile North of Hwy 10.
S19 R20E T28N.

w/ Mike Gilbert

Old Field & Pasture

*

9821 Rudbeckia hirta L. Open glade-like area.

*

9822 Monarda citriodora Cerv. ex Lag. open rocky ground

*

9823 Heliotropium tenellum (Nutt.) Torr. open rocky ground

*

9824 Hypericum punctatum Lam. open ground

*

9825. Polygala incarnata L. glade-like area

*

9826 Dracopis amplexicaulis (Vahl) Cass. low wet area
of field.

Comp

June 29, 1990. MO: Barton Co. Along hiway 8126 at junct.
of 71 hiway. S35R31W T31N

9827. Ptilimnium nuttallii (DC.) Britt. roadside.

Comp

June 29, 1990. MO. ^{Jasper} ~~Barton~~ Co. Along hiway 96 ca. 1.2
east of junct. 37. S2R33W T28N.

9828. Hypericum punctatum Lam. roadside ditch.

9829. Torilis japonica (Hartt.) DC. roadside ditch

June 30, 1990. KS. Sumner Co. Knight Farm Disturbed
Farm area ca. 2.5 miles SW of Caldwell.
S17R3W T35S.

9830.

Along roadside.

Comp.

June 30, 1990. KS. Barber Co. Gypsum Hill prairie ca.
 3 miles SW of Hwy. 160 S30R12W T32S
 pasture along Gyp Hill Road.

9831. Dalea aurea Nutt. prairie pasture

9832. Dalea enneandra Nutt. prairie pasture

9833. Tamarix ramosissima Ledeb. along roadside

9834. Porage

9835. Hymenopappos tenuifolius Pursh, along roadside

9836. Calylophus serrulatus (Nutt.) Raven - along roadside

9837. Ipomoea leptophylla Torr. Along roadside.

Comp.

June 30, 1990. KS. Barber Co. In ditch along Hiway 281
 ca. 8 miles north of ~~Hardman~~ jt. 14/2. S36R12W
 T33S.

9838. Hypericum sphaerocarpum Michx. roadside ditch

comp
July

28, 1990. mo: Newton Co., ca. 0.2 mile south of
junct. DD on east side of Hwy 43. S33R34W T24N
Lat. $36^{\circ}45'$ Long. $94^{\circ}40'$

5

9839. Silene rigia Sims

On rocky roadside hill.

comp

Wildcat Park

July 28, 1990. mo: Newton Co., ca. 1 m south of I 44 on west
side of Hwy 86. S34R33W T27N LT $37^{\circ}0'$
LG $94^{\circ}35'$

2

9840. Frullania inflata Gott.

On Sycamore along creek.

1

9841 Porella pinnata L.

On roots of Acer negundo at edge of intermittent
stream.

1

9842. Frullania inflata Gott.

On Sycamore along stream.

2

9843. Reboulia ^{shaded} hemisphaerica (L.) Raddi

On soil in crevice of limestone of south facing
bluff.

¹ 9844.

On roots of Acer negundo near intermittent stream.

¹ 9845. Frullania inflata (L.) Gott.

on Acer

(Silver Maple) near stream.

² 9846. Selaginella rupestris (L.) Spring.

On exposed limestone of south facing slope.

Comp

August 11, 1990. MO. Barry Co. Roaring River State Park.

Along intermittent stream below Piber Trail.

S27R27W T22N LT 36°37' LG 93°60'

w/ Caleb Timme

² 9847. Calypogeia muelleriana (Schiffn.) K. Mull.

On rock at edge of stream bed.

¹ 9848 Porella platyphylloidea (Schwein.) Lindb.

On decorticated log at edge of stream bed.

Camp

Sept. 3, 1990. mo: St. Clair Co., Base of Buzzard's Bluff
above Sac River. S35 R26W T37N.

ca. 1 mile west of Hwy V ~ 2.0 mile north of Hwy 54.
w/ Mary Brown Lat 38° 01' Long 93° 43'

9849. Phaeoceros laevis (L.) Prosk.
on wet ss ledge near base of bluff.

²⁵
9850. Calypogeja muelleriana subsp. blomquistii Schust.
On moist soil beneath overhang at base
of bluff.

²
9851. Reboulia hemisphaerica (L.) Radd:
On moist soil over sandstone at base
of bluff.

²
9852. Pallavicinia lyellii (Hook.) Carruth.
Growing over Leucobryum albidum at base of bluff.

¹
9853. Scapania nemorosa (L.) Dum.
On sandstone ledge at base of bluff.

Sept. 3, 1990. MO: Dade Co., ^(Hwy 245) Bona Glade ca. 1.2
miles west of Bona off Hwy 215. S32 R25^W T33N.
Lat. 37°32' Long. 93°42'
w/ Mary Brown

³
9854. Scapania nemorosa (L.) Dum. on sandstone rock
in shallow gully in edge of forest.

³
9855. Reboulia hemisphaerica (L.) Raddi on sandstone ledge
of bluff.

¹
9856. Frullania squarrosa (Reinw., Blume & Nees) Dum.
On thin soil over sandstone.

¹
9857 Calyptogeia muelleriana subsp. blomquistii Schust.
On thin soil over sandstone. Mixed w/ Aulacomnium

Comp.

Sept. 16, 1990. KS: Cherokee Co., ca. 8.0 mile west of Hwy 7
on south side of Hwy 160. S23 R22E T31S
Lat. 37°20' Long 94°58'

² *

9858. Riccia fluitans L. ♂ Stranded in mud ~~among~~ among
Nelumbo lutea population. ✓

Comp

Sept. 16, 1990, KS: Crawford Co., Crawford State Park.
~~at~~ Ca. 1.0 mile east of Hwy 7 + 2.0 mile south of Bourbon/
 Crawford ~~State~~ ^{County} Line. S5R2+E T28S. Lat. $37^{\circ}38'$
 Long. $94^{\circ}49'$

9859. Frullania squarrosa (Reinw. et al.) Dum.
 on bark of Quercus sp.

Comp

Sept. 22, 1990. MO: Carter Co.,
 Big Springs State Park 4.0 miles south of Van Buren
 on Hwy 103. S6 R1E T26N. ~~to~~ Lat. $36^{\circ}59'$ Long. $91^{\circ}51'30''$
 Dolomite with chert.

Bryological Foray

9860. Porella pinnata L. on rocks at edge of spring.

9861. Fontinalis sullivantii Lindb. attached to rocks
 where spring enters into Current River.

9862 Frullania squarrosa (Reinw. et al.) Dum. mixed w/
Porella pinnata L. on shaded, moist rocks at
 edge of spring.

- ⁵
9863. Porella pinnata L. on underledge of rock near stream.
- ²
9864. Porella platyphylloidea (Schwein.) Lindb. on bark at base of Asimina triloba.
- ²
9865. Frullania squarrosa (Reinw. et al.) Dum. mixed w/ Porella platyphylloidea (Schwein.) Lindb. on bark at base of Asimina triloba.
- ⁴
9866 Lophocolea bidentata (L.) Dumort. On rock at edge of spring.
- ⁴
9867 Porella pinnata L. attached to rocks below water surface at spring.
- ¹
9868. Frullania squarrosa (Reinw. et al.) Dum. on bark at base of Acer negundo.
- ²
9869. Riccardia multifida (L.) S. Gray attached to ^{submerged} rocks ~~in~~ in stream.
- ² 76
98~~68~~. Frullania inflata Gott. on the base of Carpinus sp.
- ² 71
98~~69~~ Plagiochila asplenioides subsp. porelloides (Torrey ex Nees) Schust.

- ³ 9872. Trichocolea tomentella (Ehrh.) Dum. ^{on rock boulder near Spring}
- ³ 9873. Conocephalum conicum (L.) Lindb. mixed in with Trichocolea tomentella on rock boulder near spring.
- ² 9874. Lophocolea cuspidata (Nees) Limpr. on moist shaded rocks at edge of spring.
- ¹ 9875. Frullania squarrosa (Reinw. et al.) Dum. on roots of Platanus occidentalis near stream.
- ¹ 9876. Reboulia hemisphaerica (L.) Raddi: mixed w/ Plagiochila asplenoides and Lophocolea bidentata.
on rocks at edge of spring.
- ¹ 9877. Lophocolea bidentata (L.) Dumort. mixed w/ Plagiochila asplenoides and Reboulia hemisphaerica on rocks at edge of spring.
- ² 9878. Radula obconica Sull. On shaded boulders at spring.
- ³ 9879. Amblystegium noterophilum (Sull. & Lesq. ex Sull.) Holz. attached to rocks at edge of spring.

✓
1 80
9878Lophocolea bidentata (L.) Dumort. On moist rocks
below large overhanging boulders.2 81
9879 Frullania riparia Hampe ex Lehm. on bark of tree.2 2
9880 Frullania eboracensis Gott. on log at base of bluff.3
9883 Fissidens grandifrons Brid. Attached to rock at
spring.2 4
9882. Nowellia curvifolia (Dicks.) Mitt. On log just north of
path to spring.2. 5
9883 Jubula pennsylvanica (Steph.) Evans2 6
9884 Metzgeria furcata (L.) Dum. attached to wet rock near
spring.1 7
9885 Lophocolea bidentata (L.) Dumort. on soil at base of
cabin 405 wall.2
9886 Aneura pinguis (L.) Dum. On moist decorticated
log at base of bluff.

¹ 9887 Frullania inflata Gott. on bark of Platanus occidentalis.

⁹⁶
~~9888~~ Frullania inflata Gott. on bark

Sept. 22, 1990. MO: Shannon Co. Rocky Creek Falls ca.

Sec. 18, T. 28N, R. 2W Lat. 37° 5' N Long. 91° 12' 30" E
Along falls and bluffs. Rock at falls = Felsites
and upper slopes dolomite with chert.

² ⁹¹
~~9889~~ Cololejeunea biddlecomiae (Aust.) Evs. in rock
crevice on east side of slope.

² 9892. Frullania squarrosa (Reinw. et al.) Dum. on shaded
rocks of east slope.

² 9893. Porella platyphylla (L.) Pfeiff. on moist shaded rock
of east slope.

² 9894 Mannia triandra (Scop.) Grolle

- ² 989⁵. Hedwigia ciliata (Hedw.) P. Beauv.
- ² 989⁶. Cephalozia rubella (Nees) Warnst. on ^{moist} soil of west slope.
- ¹ 989⁷. Dicranum spurium Hedw. on soil of west slope.
- ² 989⁸. Aneura pinguis (L.) Dum on soil over rock below boulder.
- ² ✓ 989⁹. Calypogeja fissa (L.) Radd: on shaded soil beneath Royal ferns at edge of stream above falls.
- ² 900 989¹⁰. Grimmia laevigata (Brid.) Brid. on exposed rock near stream.
- ² 901 989¹¹. Frullania inflata Gott. on Juniperus virginicus on bluffs.
- ¹ 990². Conocephalum conicum (L.) Lindb. on soil at edge of stream above falls.
- ² 990³. Porella pinnata L. on roots just above waterline of stream above falls.

2.
9904. Lophocolea heterophylla (Schrad.) Dum. on
soil over roots just above water line of
stream above falls.
- 2
9905. Leucolejeunea clypeata (Schwein.) Evans ^{shaded} on thin
soil over rock below rock overhang.
- 2
9906. Tortella humilis (Hedw.) Jenn. on base of
tree above falls.
- 1 7
9907. Frullania inflata Gott. on rocks above falls.
- 2
9908. Polytrichum juniperinum Hedw.
on soil over rocks above falls.
- 2 10
9909. Porella pinnata L. on moist soil below overhang
of boulder.

Sept. 22, 1990. mo.

Cupula Gum Pond

- 1 11
9910. Scapania nemorosa (L.) Dum. on moist log.

³
9909. ¹²Fontinalis

Attached to base of gum tree.

¹
9910. ¹³Frullania Kunzei Lehm. et Lindenb. On Quercus sp.

Sept. 25, 1990. KS: Neosho Co., ca. 1.5 mile north of Hwy. 39
Sec. 8, R18E, T27S. Small cave of limestone
rock in low woods.

²
9914. Reboulia hemisphaerica (L.) Radd:
On soil over Sandstone at cave entrance.

Oct. 13, 1990. ^{KS:} Neosho Co. Parsons Lake. Along Limestone
rocky bluffs on south end of lake. Sec. 33,
R19E, T30S.

*
9915. Frullania inflata Gott.
On Acer negundo

*
9916. Entodon seductrix (Hedw.) C. Müell.
On base of Maclura pomifera

4 *

9917. Brachythecium oxycladon (Brid.) Jaeg. & Sauerb.
On soil over shale below dam. Steep
north-facing slope.

1 *

9918. Orthotrichum pumilum Sw.
On Fraxinus sp.

1990

Oct. 13. KS: Neosho Co., ca. 0.75 mile south of
Galesburg at Labette Cr. bridge on FAS
379. Along Creek.

2 *

9919. Fissidens fontanus (B.-Pyl) Steud.
Attached to rock in stream.

Oct. 19, 1990. KS: Montgomery Co.

w/ Joyce Barker

1 9920. Conocephalum conicum (L.) Lindb.
on ss below overhang.

2 ✓

9920a. Aneura pinguis (L.) Dum.
on moist soil below overhang.

2

9921. Weissia controversa Hedw.

On soil over ss in woods.

9921a. Brachythecium oxycladon (Brid.) Jaeg. & Sauerb.

9922. Frullania squarrosa (Reinw. et al.) Dum.

On Platanus occidentalis near spring.

1

9923. Hedwigia ciliata (Hedw.) P. Beauv.

On exposed ss boulder.

1

9924. Reboulia hemisphaerica (L.) Raddi.

On vertical ss near spring.

3

9924a. Frullania inflata Gott. on verticle sandstone.

9925.

On exposed soil on bluff tops.

1

9926. Anthoceros punctatus L.

On ss boulders.

2

9927. Mannia fragrans (Balbis) Frye et Clark

On thin^{moist} soil over rock, mixed w/9926.

9927a. Bryoandersonia illecebra (Hedw.) Robins.

9928. Frullania inflata Gott.

On Carya Sp.

*

9929. Nowellia curvifolia (Dicks.) Mitt.

On log.

✓

Nov. 11, 1990. KS: Wilson Co. ca. 3.0 miles north of Hwy 96
 off FAS 759. Bluff and ravine along
 Brush Creek. S25 R13E T27S. Oak-Hickory Woods.

w/ Joyce Barker.

*
 9930. Fissidens taxifolius Hedw.
 32811 On soil of stream bank.

*
 9931. Frullania squarrosa (R.B.N.) Nees; on bark of
 32812 Quercus sp.

*
 9932. Diplophyllum spiculatum (Evans) Steph.
 32813 On boulder.

9933. Frullania inflata Gott.
 32814 On soil over rock at small cave.

✓
 9934. Atrichum angustatum (Brid.) B.S.G.
 32815 on base of Quercus alba.

✓
 2
 9935. Polytrichum juniperinum Hedw.
 32816 on soil on bluff.

✓
 9936. Reboulia hemisphaerica (L.) Raddi.
 3287 On vertical rock.

✓
 9937. Leucodon julaceus (Hedw.) Sull.
 3281 On soil in woods.

9938. Riccia beyrichiana Hampe.
 3289 On soil along path.

* 9938a. Bryum capillare Hedw.

3282
 9939. Campylium hispidulum (Brid.) Mitt.
 3287 On log.

2
 9940. Anomodon rostratus (Hedw.) Schimp.
 2282 On rock.

* 9940a. Desmatodon plinthobius Sull. & Lesq. ex Sull.; on rock

* 9941. Mnium punctatum Hedw. ✓
 3282 In crevice of boulders.

* 9942. Calypogeia muelleriana (Schiffn.) K. Müller.
 3282 On moist rock near cave entrance.

1 * 9943. Lophocolea bidentata (L.) Dumort.
 3282 On rock boulder.

2 * 9944. Dicranella heteromalla (Hedw.) Schimp.
 3282 On soil on bluff.

9945. Hedwigia ciliata (Hedw.) P. Beauv.
32828 On boulders.

* 9946. Leucobryum albidum (Brid. ex P.-Beauv.) Lindb. *
32829 On soil beneath oaks on bluff.

* 2 9947. Fissidens taxifolius Hedw.
32830 On soil at cave.

6 9948. Reboulia hemisphaerica (L.) Radd:
32831 On soil over rock at cave.

* 9949. Fabronia ciliaris (Brid.) Brid.
32832 On Quercus alba.

9950. Frullania squarrosa (Reinw. et al.) Dum.
32833 On base of Quercus alba.

9951.
* 32834 On moist log at base of intermittent stream.
32834

* 9952. Calypogeia muelleriana (Schiffn.) K. Maell.
32834 On soil over rock at cave.

9953. Reboulia hemisphaerica (L.) Radd:
32835 On soil along path of bluff.

^z 9954. Conocephalum conicum (L.) Lindb.
32836 On soil beneath overhang at cave.

9955. Mnium cuspidatum Hedw.
32837 In crevice of vertical rock.

* 9956. Frullania eboracensis Lehm.
32838 On Quercus sp. *

9957. Reboulia hemisphaerica (L.) Raddi
32839 On soil over rock above cave.

9957a Scapania nemorosa (L.) Dum. ↑
32841
^z 9958. Atrichum angustatum (Brid.) B.S.G.
32842 On moist soil near cave.

* 9959. Radula obconica Sulliv.
32843 On rock.

9960.
32844

9961. Grimmia laevigata (Brid.) Brid.
32845 On moist soil over rock below bluff.

9962. Entodon seductrix (Hedw.) C. Miell.
32846 On soil at base of Quercus sp.

9963. Grimmia laevigata (Brid.) Brid.

32847 On exposed rock at top of bluff overlooking stream.

2*

9964. Scapania undulata (L.) Dum.

32848 On soil in woods.

4

Dec. 1, 1990. KS: Montgomery Co. Elk River State Park.

Hiking trail. SZIRISE T32S

Lat. 37° 16' Long. 95° 47'

w/ Joyce Barker

9965. Leucodon julaceus (Hedw.) Sull. base of tree.

33173

9966. Fissidens taxifolius Hedw. on soil.

33174

9967. Frullania inflata Gott. j on trunk of Juniperus virginicus L.

33175

9968 Leucodon julaceus (Hedw.) Sull.

33176

2

9969. Grimmia

over ss.

33177

9970. Mnium cuspidatum Hedw. ; over soil at base of
33178 Carya sp.

* 9971. Thelia hirtella (Hedw.) Sull., base of Juniperus
33179 virginicus L. *

² 9972.
On base of rotted stump. to C.M.

* 9973. Thelia lescurii Sull. ; on base of Carya sp. *
33180

² 9974. Entodon seductrix (Hedw.) C. Muell.
33181 At base of dead tree.

* 9975. Porella pinnata L. *
33182 on roots of Quercus alba.

9976. Anomodon attenuatus (Hedw.) Hüb. *
33183 on base of Juniperus virginicus L.

~~9970~~

Dec. 7, 1990. MO: St. Clair Co., Buzzard's Bluff. ca. 1 mile
west of hwy V to 2.0 miles North of hwy. 54.
S35 R26W T37N Lat. $37^{\circ}56'$ Long. $93^{\circ}44'$.
w/ Joyce Barker. Base of Bluff and Parking Area.

9977. Reboulia hemisphaerica (L.) Raddi; on soil over ss.
32810

9978 Dicranum scoparium Hedw., On soil in woods.
32809

9979. Lophozia bicrenata (Schmid.) Dum.
On sandy soil in woods.

9980.

9981. Calypogeia mulleriana (Schiffn.) K. Muhl.
On soil over ss.

9982. Reboulia hemisphaerica (L.) Raddi; on moist soil over
ss.

9983. Diplophyllum apiculatum (Ers.) Steph.
On soil over moist ss.

9984. Reboulia hemisphaerica (L.) Raddi; on soil over ss.

9985. Notothylas orbicularis (Schwein.) Sull.
On moist sandstone.

9986. Frullania inflata Gott. On trunk of Quercus sp.

9986a. Pallavicinia lyellii (Hook.) Carruth; growing over Leucobryum sp.

9987. Frullania squarrosa (R.B.N.) Nees; on sandstone.

9988. Odontoschisma prostratum (Sw.) Trev.; on moist
vertical ss.

9989. Aneurapinguis (L.) Dum.; wet soil over ss.

9990. Calypogeia fissa (L.) Raddi; on wet ss.

9991. Scapania nemorosa (L.) Dum. on soil over ss.

9992. Selaginella rupestris (L.) Spring; on exposed ss.

Dec. 26, 1990. AL: Marion County. Ravine at Hwy and
North Fork Creek.

w/ Joyce Barker

⁶
9993. Hedwigia ciliata (Hedw.) P. Beauv.
on exposed ss.

²
9994. Leucolejeunea clypeata (Schwein.) Evans
on bark of Acer sp.

¹
9995. Leucolejeunea dypeata (Schwein.) Evans
on bark of Acer sp.

⁴
9996 Polytrichum juniperinum Hedw.
on ss beneath Pinus sp.

⁷
9997. Odontoschisma prostratum (Sw.) Trev.
on sandy soil.

¹
9998

²
9999 Hypnum imponens Hedw.
On soil over rock.

- ³
10,000 Bazzania trilobata (L.) S. Gray
At base of Acer sp. over soil.
- ¹
10,001 Scapania undulata (L.) Dum.
on wet soil near stream.
- ²
10,002 Scapania undulata (L.) Dum.
On wet soil near stream.
- ⁴
10,003 Odontoschisma prostratum (Sw.) Trev.
on wet soil near stream.
- ¹
10003a. Lophozia bicrenata (Schmid. ex Hoffm.) Dum.
- ²
10004 Pallavicinia lyelli (Hook.) Carruth.
On wet soil at margin of stream.
- ²
10005 Climacium americanum Brid.
On wet soil at margin of stream.
- ⁶
10006. Sphagnum
On wet soil at margin of stream.
- ⁴
10007. Scapania nemorosa (L.) Dum.
On wet soil at margin of stream.
- ¹
10008 Scapania nemorosa (L.) Dum.
On wet soil at margin of stream.

2

10009. Pellia epiphylla (L.) Corda
On wet soil at margin of stream.

2

- 10010 Grimmia laevigata (Brid.) Brid.
On exposed ss above stream.

Dec. 27, 1990. AL: Winston Co., Natural Bridge.

10011. Jubula pennsylvanica (Steph.) Evans
On soil over wet ss.

10012. Radula sullivantii Aust.
On ss. boulder.

10013. Metzgeria furcata (L.) Dum.
On ss boulder.

- ²
10014. Radula sullivantii: Aust. mixed with
On ss rock. Leucolejeunea clypeata.
- ¹
10015. Bazzania trilobata (L.) S. Gray
On ss boulder.
- ¹
10016. Radula obconica Sull.
On wet ss rock.
- ²
10017. Leucolejeunea clypeata (Schwein.) Evans
On bark of Beech.
- ¹
10018. Plagiochila asplenioides subsp. porelloides
On ss boulder. (Torrey ex Nees) Schost.
- ¹
10019. Trichomanes petersii A. Gray
On ss boulder.
- ¹
10020. Leucolejeunea unciloba (Lindenb.) Evans
On bark of hemlock.

10021. Jubula pennsylvanica (Steph.) Evans
 over rock
 On soil ^{over rock} beneath overhang.

10022. Dumortiera hirsuta (Sw.) Nees
 On soil over wet ss rock.

10023. Jubula pennsylvanica (Steph.) Evans
 On thin soil over wet ss.

10023a. Calypogeia muelleriana (Schiffn.) K. Muell.

10024. Odontoschisma prostratum (Sw.) Trev.
 On moist ss.

10025. Scapania nemorosa (L.) Dum.
 On moist ss.

10026. Pallavicinia lyellii (Hook.) Carruth.
 On soil over ss below overhang.

10027. Leucolejeunea clypeata (Schwein.) Evans
 On moist ss boulder.

10027a. Frullania Kunzei (Lehm. & Lindenb.) Lehm. & Lindenb.

10028 Calypogeia fissa (L.) Radd: mixed w/ Diplophyllum
On wet ss. apiculatum

10029. Diplophyllum apiculatum (Evans) Steph.
On moist ss.

10029a. Cephalozia connivens (Dicks.) Lindb.

10030. Odontoschisma prostratum (Sw.) Trev.
On soil beneath overhang.

10031 Diplophyllum apiculatum (Evans) Steph.
On moist ss.

10032. Diplophyllum apiculatum (Evans) Steph.
On moist ss.

² 10033. Leucolejeunea clypeata (Schwein.) Evans
On decaying log.

² 10034. Leucolejeunea clypeata (Schwein.) Evans
on bark.

²
10035. Syrrophodon texasus Sull.
On very wet bark of Hemlock; mixed w/ odontoschisma
prostratum (Sw.) Trev.

¹
10036. Conocephalum conicum (L.) Lindb.
On wet soil over ss.

¹
10037. Fissidens polypodioides Hedw.
In spray of waterfall on ss.

⁴
10038. Trichocolea tomentella (Ehrh.) Dum.
On soil below ss overhang.

³
10039. Fissidens polypodioides Hedw.
On wet soil below ss ledge.

¹
10040. Lophocolea cuspidata (Nees) Limpr.
On wet soil below ss ledge.

²
10041. Aneura pinguis (L.) Dum.
On wet soil below ss overhang.

- ²
 10042. Plagiochila asplenoides subsp. porrelloides
 on ss boulder in stream below falls. (Torrey ex
 Nees) Schost.
- 10042a. Radula obconica Sull.
- ⁺
 10043. Scapania nemorosa (L.) Dum.
 on moist ss. boulder.
- ²
 10044. Odontoschisma prostratum (Sw.) Trev.
 on moist ss boulder
10045. Scapania nemorosa (L.) Dum. mixed
w/ Calypogeia fissa (L.) Radd:
 on moist ss boulder.
- 10045a. Diplophyllum apiculatum (Evans) Steph.
 (Hedw.) P. Beauv.
- ⁵
 10046. Atrichum undulatum - wet soil along stream -
 over ss.
- 10046a. Plagiochila porrelloides (Torr.) Lindenb.
- 10046b. Jubula pennsylvanica (Steph.) Evans.

Dec. 27, 1990. AL: Burger King along Hwy 331
 at Montgomery. Low Pine woods.

- 10047 Frullenzia squarrosa (Reinw. et al.) Dum.
 on Quercus sp.

²
10048. Trullania inflata Gott.
On Quercus sp.

¹
10049. Amblystegium varium (Hedw.) Lindb.
On Quercus sp.